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pneumatics
process control
sealing & shielding



Parker Legris: LIQUIfit® Connection Solutions for Beverages & Fluids



ENGINEERING YOUR SUCCESS.

The Fluid System Connectors Division (formerly Legris) of Parker Hannifin, the global leader in motion and control technologies, has launched LIQUIfit® and LIQUIfit+, 2 new “eco-designed” ranges of leak-free and compact push-in fittings, tubing and complementary products for liquid transfer applications.

The LIQUIfit® range is suitable for liquid transfer applications: food process, drinks dispensers, water purification systems...

This product range also benefits from a range extension of metal adaptors designed for liquid transfer applications.

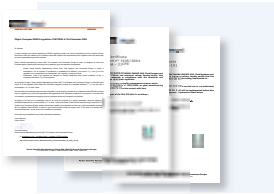
LIQUIfit+ provides zero retention push-in fittings for 100% cleanliness. The innovative sealing and gripping design drastically reduces bacteria growth, giving 100% cleanliness.

LIQUIfit+ fittings are intended for use in applications concerning the dispensing of liquids and beverages (including beer lines) and offer many sustainability-related benefits.



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Directives and Regulations: the Parker Legris Offer

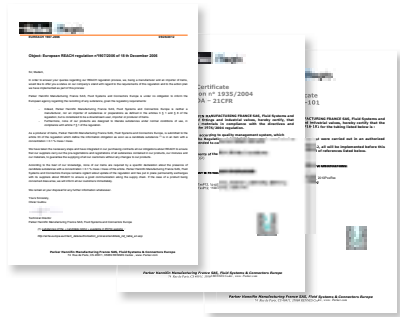
Parker Legris complies with the directives and regulations listed below and goes beyond its statutory obligations for the ranges in question.

	European RoHS directives: 2011/65/EC Relating to the limitation of the use of 6 hazardous substances in electrical and electronic equipment (mercury, lead, cadmium, hexavalent chromium, PBB and PBDE).		NSF 61: NSF / ANSI-61 Fittings and tubes complying with this standard are tested and approved by NSF for contact with drinking water.
	REACH regulation: no. 1907/2006 As product manufacturer, we are subject to article 33 of the regulation which defines a duty to inform when a candidate substance is present at more than 0.1% weight for weight.		NSF 42 and 58: NSF/ANSI-42/58 Tubes complying with this standard are tested and approved by NSF for drinking water treatment systems.
	Pressurised equipment directive: 97/23/EC This directive regulates the design, manufacture and assessment of pressurised equipment to ensure operating safety.		ACS: Attestation de Conformité Sanitaire (France) Official approval issued by the Direction générale de la Santé Française (French Health Directorate), applies to constituent materials of equipment in contact with water intended for human consumption.
	ATEX directive: 94/9/EC mandatory since 01/07/2003 This directive is mandatory for electrical and non-electrical equipment used in explosive gaseous or dusty atmospheres. The use of our products in these areas must be determined in accordance with the ATEX environment.		KTW: Kunststoffe und Trinkwasser (Germany) Guidelines for the health evaluation of equipment in contact with drinking water, assessment and certification carried out by the TZW.
	Regulation 1935/2004 This framework regulation relates to materials and objects designed to come into contact with foodstuffs. It describes specific measures per product group (Art. 5).		W270: Food contact standard (Germany) Standard describing a test method for determining the microbial growth on non-metal materials designed to come into contact with drinking water. Test and certification carried out by the TZW.
	CFR 21: Code of Federal Regulation Title 21: Food and Drugs This code consists of lists of prohibited substances for materials intended to come into contact with foodstuffs.		WRAS: Water Regulations Advisory Scheme (UK) Fittings approved by this programme are declared compliant for water supply by WRc - NSF.
	NSF 51: NSF / ANSI-51 Fittings and tubes complying with this standard are tested and approved by NSF for contact with drinks and foodstuffs.		DM 174: Ministerial decree (Italy) Declaration of hygiene compliance for equipment used for drinking water, tested and certified by the TIFQ.

The Parker Legris product range offers compliance with numerous European standards associated in particular with the directives and regulations referred to above. The official texts of these directives are available on the site: <http://eur-lex.europa.eu>.

Certificates and Regulations

Certificates of conformity for our products are available on our web site. Contact us for any further information you require.



Together, We Can Build Sustainable Development

Parker Legris, ISO 14001 certified, has made the conservation of resources and protection of the environment a major priority. We have incorporated improved environmental management as a permanent feature in the vision and mission of the company, aiming to benefit nature, technology and mankind.



- Protecting natural resources**
By saving energy through the performance of our production facilities.
- Improving performance**
By changing habits in order to promote new materials and concepts.
- Asserting our values for the protection of the environment**
By having all our sites ISO 14001 certified in order to unify all our employees around clear objectives regarding the management of the environment.

Our actions are coupled with your environmental process

Reducing the impact on industrial sites

Parker Legris has integrated environmental protection management into the operation of its industrial sites. This approach has enabled 85% of waste to be recovered and has reduced energy consumption by 15%.

Offering ecologically responsible products

Under its continuous improvement process, Parker Legris has integrated ecological design as an input parameter to innovation and uses Life Cycle Assessment (LCA) to optimise the environmental impact of its products.

Providing information on the PEP (Product Environmental Profile)

This communication tool is common to all industries and professions and delivers a reliable and clear message for promoting ecological advances and incorporating this data within the LCA equipment.

Getting ahead of regulations

Parker Legris goes beyond its statutory obligations and endeavours to find a good match between choice of materials, limitation of hazardous substances, selection of recycling channels and industrial performance to encourage the recycling of products at end of life.

Using our technology reduces the environmental impact

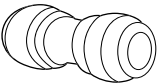
LIQUIfit®

Tube-to-Tube Connector



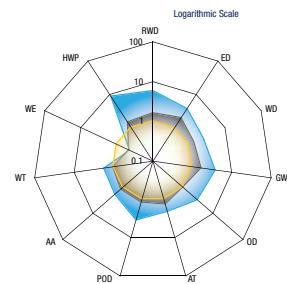
Market Standard

Tube-to-Tube Connector



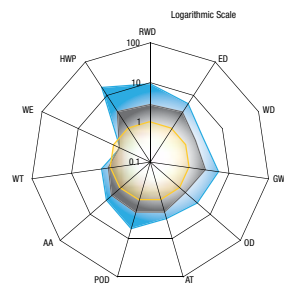
- Parker Legris
- Market Standard in PP
- Market Standard in POM

Stud Elbow



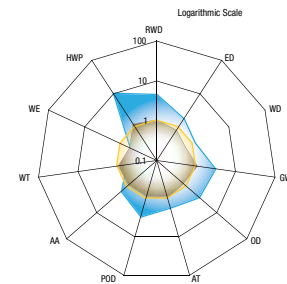
- RWD: Raw Material Depletion
- ED: Energy Depletion
- WD: Water Depletion
- GW: Global Warming

Tube-to-Tube Connector



- OZ: Ozone Depletion
- AT: Air Toxicity
- POC: Photochemical Ozone Creation
- AA: Air Acidification

Stud Fitting



- WT: Water Toxicity
- WE: Water Eutrophication
- HWP: Hazardous Waste Production



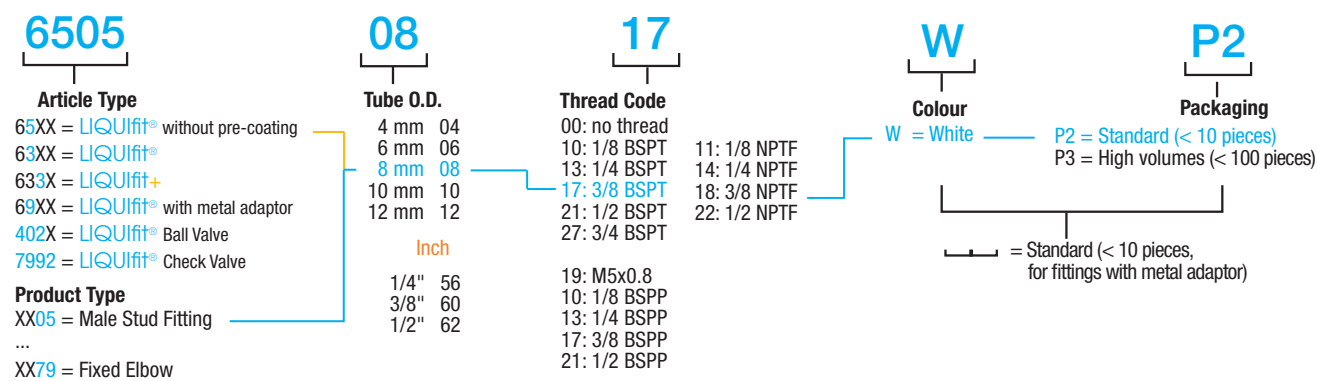
Part Number Identification

The part numbers used for our product ranges are coded in such a way as to make it easy to identify any particular item.

Part Number Construction for Fittings and Valves

The part numbers are selected using a technical mnemonic code.
Each fitting and valve is identified by:

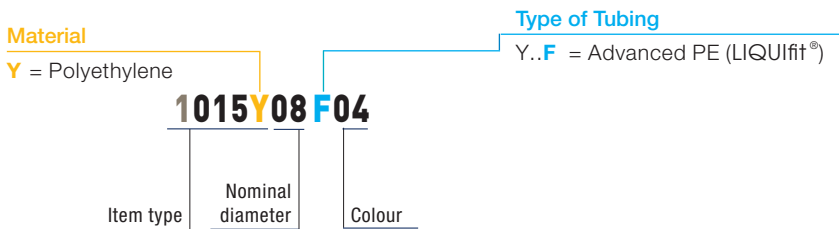
- model series (4 digits)
- nominal diameter (2 digits)
- thread or 2nd nominal diameter (2 digits)
- a suffix, if applicable



Part Number Construction for Tubing

The part numbers are selected using a technical mnemonic code.
Each tube is identified by:

- model series (4 digits and a letter)
- nominal diameter (2 digits)
- colour (2 digits)
- inside diameter, if applicable



Nominal diameter code: equates to the outside diameter.
Colour code: see table below.

00 = (clear) 01 = 02 = 03 = 04 = 05 = 10 = (white)

Thread Identification

BSP Thread	Code
1/8"	10
1/4"	13
3/8"	17
1/2"	21
5/8"	23
3/4"	27

NPTF Thread	Code
1/8"	11
1/4"	14
3/8"	18
1/2"	22

Metric Thread	Code	UNS Thread	Code
M5x0.8	19	7/16-24	133

Product Ranges for Fluids and Beverages

Push-In Fittings

LIQUIfit® Push-In Fittings (P. 10)



Fluids: water, beverages, coolants, inert gases
Materials: biopolymer, EPDM
Pressure: 16 bar
Temperature: -10°C to +95°C
Ø metric: 4 mm to 12 mm
Ø inch: 5/32" to 1/2"

LIQUIfit+ Push-In Fittings (P. 26)



Fluids: water, beer, beverages, industrial fluids
Materials: biopolymer, EPDM
Pressure: 16 bar
Temperature: -10°C to +95°C
Ø inch: 5/16" to 1/2"

LIQUIfit® Push-In Fittings with Metal Adaptors (P.28)



Fluids:
Stainless steel 316L threads: water, beverages, industrial fluids
Nickel-plated brass threads: industrial fluids
Materials: biopolymer, EPDM, stainless steel 316L or FDA chemical nickel-plated brass
Pressure: 16 bar
Temperature: -10°C to +95°C
Ø metric: 4 mm to 12 mm

Tubing

Advanced PE Tubing (P. 36)



Fluids: many fluids
Materials:
– 50% reticulated polyethylene, food-grade
– 7 colours
Pressure: 20 bar
Temperature: -40°C to +95°C
O.D. metric: 4 mm to 16 mm
O.D. inch: 1/4" to 1/2"

Ball Valves and Non-Return Valves

LIQUIfit® Non-Return Valves (P. 38)



Fluids: water, beverages, liquid foodstuffs
Materials: polymer for food applications
Pressure: 10 bar
Temperature: 0°C to +65°C
Ø inch: 1/4" to 1/2"

LIQUIfit® Ball Valves, (P. 40)



Fluids: water, beverages, CO₂, inert gases
Materials: polypropylene, EPDM seal
Pressure: 10 bar
Temperature: -15°C to +100°C
Tube Ø: 1/4" and 3/8"

Range of LIQUIfit® Push-In Fittings

Stud Fittings									
Straights				Straights - Inch					
6505 BSPT Page 12	6315 BSPT Page 12	6353 BSPP Page 13	6521 BSPT Page 14	6505 NPTF/BSPT Page 12	6315 NPTF Page 13	6353 BSPP Page 13	6352 BSPP Page 13	6325 UNS Page 13	6521 NPTF/BSPT Page 14
									
Elbows		Elbows - Inch		Tees		Tees - Inch		Plugs	
6579 BSPT Page 15	6509 BSPT Page 15	6579 BSPT/NPTF Page 15	6509 BSPT/NPTF Page 16	6508 BSPT Page 16	6503 BSPT Page 17	6508 BSPT/NPTF Page 17	6503 BSPT/NPTF Page 17	6355 BSPT Page 17	
									
Tube-to-Tube Fittings									
Straight		Straight - Inch		Elbow		Elbow - Inch		Tee	
6306 Page 18	6306 Page 18	6306 Page 18	6306 Page 18	6302 Page 18	6302 Page 18	6302 Page 18	6302 Page 18	6304 Page 19	6304 Page 19
									
Y		Y - Inch		Cross		Cross - Inch			
6340 Page 19	6340 Page 19	6340 Page 19	6340 Page 19	6307 Page 20	6307 Page 20	6307 Page 20	6307 Page 20		
									
Bulkhead Connectors				Plug-In Fittings and Accessories					
Straight		Straight - Inch		Elbows		Elbow - Inch		Tees	
6316 Page 20	6316 Page 20	6316 Page 20	6316 Page 20	6382 Page 21	6380 Page 21	6382 Page 21	6382 Page 21	6383 Page 21	6388 Page 21
									
									
Accessories									
Accessories				Accessories - Inch					
6366 Page 22	6326 Page 22	6322 Page 23	6351 Page 23	6366 Page 22	6368 Page 22	6326 Page 23	6322 Page 23	6351 Page 23	
									
Polymer Cartridges for Fluids and Gases									
Carstick®		Carstick® - Inch							
6300 Page 24	6300 Page 24								
									

Range of LIQUIfit+ Push-In Fittings

Stud Fittings		Tube-to-Tube Fittings		Plug-In Fittings
Straight - Inch		Straight - Inch	Elbow - Inch	Elbow - Inch
6333 Page 27		6336 Page 27	6332 Page 27	6331 Page 27
				

Range of LIQUIfit® Push-In Fittings with Metal Adaptors

Stud Fittings with Stainless Steel Adaptor							
Straight		Elbows		Tees			
6911 Page 29	6975 Page 29	6959 Page 29	6979 Page 30	6958 Page 30	6978 Page 30	6953 Page 31	6973 Page 31
							

Stud Fittings with Nickel-Plated Brass Adaptor							
Straight		Elbows		Tees			
6901 Page 32	6905 Page 32	6999 Page 32	6909 Page 33	6998 Page 33	6908 Page 33	6993 Page 34	6903 Page 34
							

LIQUIfit® and LIQUIfit+ Accessories			
3130 Page 25	3110 Page 25	0605 Page 25	3000 71 00 Page 25
			

Flexible Calibrated Tubing	LIQUIfit® Non-Return Valves	LIQUIfit® Ball Valves	
Advanced PE	Non-Return Valves	In-Line	Right-Angled
 1015Y..F 1030Y..F 1075Y..F 1096Y..F 1098Y..F 1099Y..F Page 37	7992 Page 39 	4020 2/2 Page 41 	4021 2/2 Page 41 
		4023 2/2 Page 41 	4022 2/2 Page 41 

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 Optimal Performance High Performance Material	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)	
	Patented sealing technology 100% leak-tested in production Date coding to guarantee quality and traceability Wide range of shapes and numerous configurations	
	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	

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

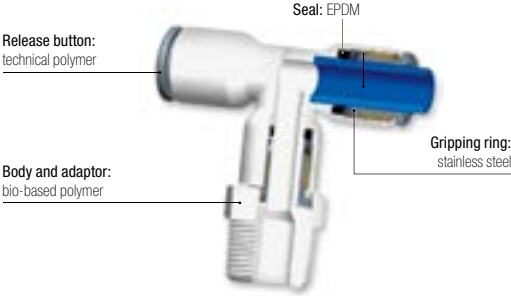
Applications

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



Silicone-free

Regulations	
DI: 2002/95/EC (RoHS), 2011/65/EC	DM 174
RG: 1935/2004/EC	WRAS
FDA: 21 CFR	ACS
NSF 51 at 95°C	RG: 1907/2006 (REACH)
NSF/ANSI 61 - C HOT	

Pressure and Temperature of the Different Diameters and Related Products of the LIQUIfit® Range

-10°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+1°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+20°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+40°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	16	16
6	1/4	16	16
8	5/16	16	16
10	3/8	13	15
12	1/2	11	11

+65°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	10	10
6	1/4	10	10
8	5/16	10	10
10	3/8	7	7
12	1/2	7	7

+95°C		Pressure (bar)	
mm Ø	inch Ø	Fittings	Tubing
4	5/32	4	4
6	1/4	4	4
8	5/16	4	4
10	3/8	4	4
12	1/2	4	4

Environmental Footprint

Example: representation of the environmental footprint of an equal tube-to-tube connector

Tube-to-Tube Connector

- Market Standard in POM
- Market Standard in PP
- Parker Legris

Environmental Approach

The Life Cycle Analysis (LCA) offers a true alternative in terms of environmental differentiation.

We carried out a comparative LCA on the market of drinking water between 3 Parker Legris fittings and the standard products on the market.

This analysis relies on ISO 14020, ISO 14025 and IEC PAS 62545 standards and the results are presented in a report approved by an ethics committee (Bureau Veritas).

LIQUIfit®

Tube-to-Tube Connector

Market Standard

Tube-to-Tube Connector

RWD: Raw Material Depletion
ED: Energy Depletion
WD: Water Depletion
GW: Global Warming
OZ: Ozone Depletion
AT: Air Toxicity
POC: Photochemical Ozone Creation
AA: Air Acidification
WT: Water Toxicity
WE: Water Eutrophication
HWP: Hazardous Waste Production

Sealing Profile for Female Thread Stud Fitting

Stud Fitting,
Female NPTF Thread
6315

Stud Fitting Flat Type,
Female BSPP Thread,
6352 and 6333

Tap Connector Cone Type,
Female BSPP Thread,
6353

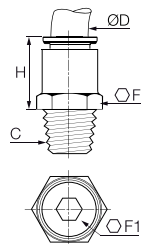
11

Stud Fittings

6505 Stud Fitting, Male BSPT Thread



Bio-based polymer, EPDM



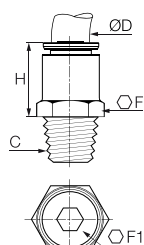


ØD	C		F	F1	H	kg
4	R1/8	6505 04 10WP2	11	3	18	0.003
	R1/4	6505 04 13WP2	14	3	18	0.004
6	R1/8	6505 06 10WP2	11	4	18	0.002
	R1/4	6505 06 13WP2	14	4	18	0.004
8	R1/8	6505 08 10WP2	17	6	20	0.004
	R1/4	6505 08 13WP2	14	6	20	0.004
10	R3/8	6505 08 17WP2	17	6	20	0.005
	R1/4	6505 10 13WP2	17	7	21.5	0.005
12	R3/8	6505 10 17WP2	19	7	21.5	0.007
	R1/2	6505 10 21WP2	22	7	21.5	0.010
12	R3/8	6505 12 17WP2	19	9	24.5	0.008
	R1/2	6505 12 21WP2	22	9	24.5	0.012

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Thread without pre-coating.

6505 Stud Fitting, Male NPTF Thread Inch


Bio-based polymer, EPDM

	ØD	C		F	F1	H	kg
1/4	NPT1/8	6505 56 11WP2		1/2	5/32	17	0.002
	NPT1/4	6505 56 14WP2		9/16	5/32	17	0.003
	NPT3/8	6505 56 18WP2		3/4	1/4	21,5	0,004
3/8	NPT1/8	6505 60 11WP2		3/4	5/32	22,1	0,005
	NPT1/4	6505 60 14WP2		3/4	1/4	22	0.006
	NPT3/8	6505 60 18WP2		3/4	1/4	22	0.007
1/2	NPT1/2	6505 60 22WP2		15/16	1/4	27	0,012
	NPT3/8	6505 62 18WP2		15/16	3/8	28	0.012
	NPT1/2	6505 62 22WP2		15/16	3/8	28	0.013

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Thread without pre-coating.

6505 56 18WP3, 6505 60 11WP3 and 6505 60 22WP3 are also available.

6505 Stud Fitting, Male BSPT Thread Inch

Bio-based polymer, EPDM

ØD	C		F	F1	H	kg
1/4	R1/8	6505 56 10WP2	11	5	17	0.002
	R1/4	6505 56 13WP2	14	5	17	0.003
3/8	R1/4	6505 60 13WP2	17	7	22	0.006
	R3/8	6505 60 17WP2	19	7	22	0.006
	R1/2	6505 60 21WP2	22	7	28	0.012
1/2	R3/8	6505 62 17WP2	24	9	28	0.014
	R1/2	6505 62 21WP2	24	9	28	0.017

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
5/32" (4 mm) and 5/16" (8 mm) also available.
Thread without pre-coating.

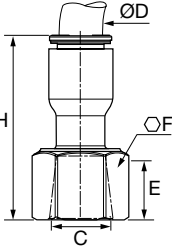
6315 Stud Fitting, Female BSPT Thread

 	Bio-based polymer, EPDM			ØD	C		F	H	kg
	6	R1/8	6315 06 10WP2	13	32	0.003			
		R1/4	6315 06 13WP2	16	33	0.004			
	8	R1/4	6315 08 13WP2	16	33.5	0.004			
		R3/8	6315 08 17WP2	20	36	0.009			
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).									

Stud Fittings

6315 Stud Fitting, Female NPTF Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		F	H	kg
		1/4	NPT1/4	6315 56 14WP2	11/16	30	0.003
		3/8	NPT3/8	6315 60 18WP2	13/16	36	0.007
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).					

6353 Tap Connector Cone Type, Female BSPP Thread

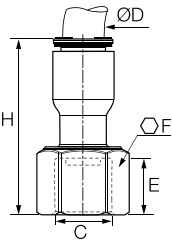
Bio-based polymer, EPDM

ØD	C		E	F	H	kg
6	G3/4	6353 06 27WP2	10	32	32	0.011
8	G3/4	6353 08 27WP2	10	32	40.5	0.017
10	G1/2	6353 10 21WP2	12	27	36	0.011

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

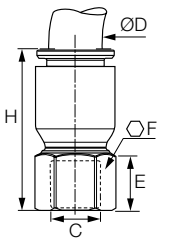
6353 Tap Connector Cone Type, Female BSPP Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		E	F	H	kg
		1/4	G3/4	6353 56 27WP2	10	32	31	0.006
			G1/2	6353 60 21WP2	12	27	36	0.011
		3/8	G3/4	6353 60 27WP2	10	32	41	0.018
		1/2	G3/4	6353 62 27WP2	10	32	44.5	0.014
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).						

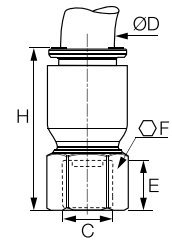
6352 Stud Fitting Flat Type, Female BSPP Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		E	F	H	kg
		5/16	G1/2	6352 08 21WP2	10.5	27	37	0.009
			G5/8	6352 08 23WP2	10.5	29	32	0.013
		3/8	G3/8	6352 60 17WP2	12	22	36	0.008
			G1/2	6352 60 21WP2	12	27	36	0.011
		1/2	G5/8	6352 62 23WP2	10.5	29	32	0.013
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).						

6325 Faucet Connector, Female UNS Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		E	F	H	kg
		1/4	UNS7/16-24	6325 56 133WP2	7	9/16	31	0.002
		3/8	UNS7/16-24	6325 60 133WP2	7	9/16	32	0.004
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).						

Stud Fittings

6521 Stud Standpipe, Male BSPT Thread

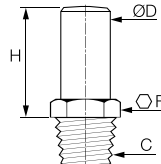
Bio-based polymer

ØD	C		F	H	kg
6	R1/8	6521 06 10WP2	13	19	0.002
	R1/4	6521 06 13WP2	14	19	0.003
	R3/8	6521 06 17WP2	17	19	0.004
8	R1/8	6521 08 10WP2	19	23	0.003
	R1/4	6521 08 13WP2	19	23	0.004
	R3/8	6521 08 17WP2	19	23	0.004
10	R1/4	6521 10 13WP2	19	25	0.004
	R3/8	6521 10 17WP2	19	25	0.005
	R1/2	6521 10 21WP2	22	25	0.008
12	R3/8	6521 12 17WP2	22	28	0.005
	R1/2	6521 12 21WP2	22	28	0.007

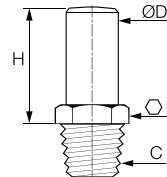
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Thread without pre-coating.

6521 Stud Standpipe, Male NPTF Thread Inch

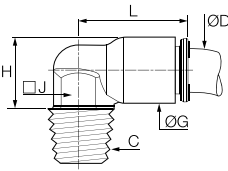
	Bio-based polymer 							
			ØD	C		F	H	kg
		1/4	NPT1/8	6521 56 11WP2		1/2	19	0.001
			NPT1/4	6521 56 14WP2		1/2	19	0.002
			NPT3/8	6521 56 18WP2		3/4	19.5	0.004
		3/8	NPT1/4	6521 60 14WP2		3/4	25	0.004
			NPT3/8	6521 60 18WP2		3/4	25	0.004
		1/2	NPT3/8	6521 62 18WP2		15/16	31	0.010
			NPT1/2	6521 62 22WP2		15/16	32.5	0.013
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).						
Thread without pre-coating.								

6521 Stud Standpipe, Male BSPT Thread Inch

	Bio-based polymer 						
		ØD	C		F	H	kg
		1/4	R1/8	6521 56 10WP2	14	19	0.001
			R1/4	6521 56 13WP2	14	19	0.002
			R3/8	6521 56 17WP2	17	19	0.004
		3/8	R1/4	6521 60 13WP2	19	25	0.004
			R3/8	6521 60 17WP2	19	25	0.004
		1/2	R3/8	6521 62 17WP2	24	31.5	0.006
			R1/2	6521 62 21WP2	24	31.5	0.009
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/16" (8 mm) also available. Thread without pre-coating.					

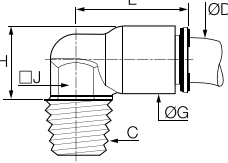
Stud Fittings

6579 Fixed Elbow, Male BSPT Thread

 	Bio-based polymer, EPDM 	ØD	C		G	H	J	L	kg
			R1/8	6579 06 10WP2	11	14	10	19	0.002
		6	R1/4	6579 06 13WP2	11	14	10	19	0.003
			R3/8	6579 06 17WP2	11	14	10	19	0.004
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). Thread without pre-coating.							

6579 Fixed Elbow, Male NPTF Thread

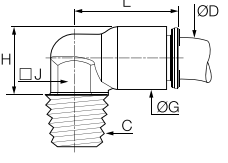
Inch

 	Bio-based polymer, EPDM 	ØD	C		G	H	J	L	kg
			NPT1/8	6579 56 11WP2	11	22	3/8	18	0.009
		1/4	NPT1/4	6579 56 14WP2	11	26	3/8	18	0.003
			NPT3/8	6579 56 18WP2	11	26.5	3/8	18	0.004
		3/8	NPT1/4	6579 60 14WP2	16	32	1/2	26	0.006

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
Thread without pre-coating.

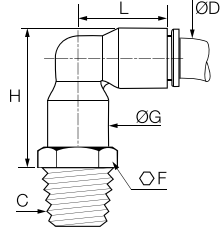
6579 Fixed Elbow, Male BSPT Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		G	H	J	L	kg
			R1/8	6579 56 10WP2	11	22	10	18	0.002
		1/4	R1/4	6579 56 13WP2	11	26	10	18	0.003
			R3/8	6579 56 17WP2	11	26	10	18	0.004
		3/8	R1/4	6579 60 13WP2	16	31.5	13	26	0.006

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
Thread without pre-coating.

6509 Stud Elbow, Male BSPT Thread

 	Bio-based polymer, EPDM 	ØD	C		F	G	H	L	kg
		6	R1/8	6509 06 10WP2	13	10.5	28	24	0.037
			R1/4	6509 06 13WP2	14	10.5	28	24	0.007
			R3/8	6509 06 17WP2	17	10.5	28	24	0.008
		8	R1/8	6509 08 10WP2	19	13.5	34	29.5	0.010

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
Thread without pre-coating; the body swivels for positioning purposes.

Complementary LIQUIfit® Range Products

These other LIQUIfit® range products are presented in the corresponding chapters of this catalogue:

Technical Tubing and Hose

Advanced PE

Page 36



Function Fittings

LIQUIfit® Non-Return Valves

Page 38



Industrial Ball Valves

LIQUIfit® Ball Valves

Page 40



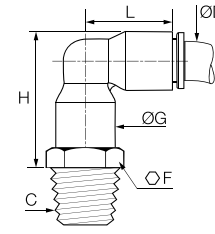
Stud Fittings

6509

Stud Elbow, Male NPTF Thread




Bio-based polymer, EPDM

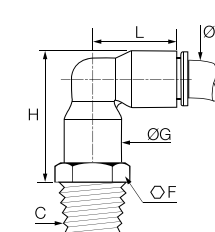


ØD	C		F	G	H	L	kg
1/4	NPT1/8	6509 56 11WP2	1/2	11	28	23.5	0.003
	NPT1/4	6509 56 14WP2	9/16	11	28	23.5	0.004
	NPT3/8	6509 56 18WP2	3/4	11	28.5	23.5	0.006
3/8	NPT1/4	6509 60 14WP2	3/4	16	38	34	0.010
	NPT3/8	6509 60 18WP2	3/4	16	38	34	0.011
1/2	NPT3/8	6509 62 18WP2	15/16	22	50.5	46.5	0.024
	NPT1/2	6509 62 22WP2	15/16	22	51.5	46.5	0.027

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Thread without pre-coating; the body swivels for positioning purposes.

Inch

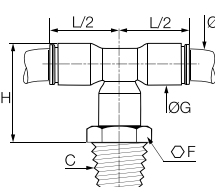
6509 Stud Elbow, Male BSPT Thread		Inch																																																												
 	Bio-based polymer, EPDM	<table><tr><th>ØD</th><th>C</th><th></th><th>F</th><th>G</th><th>H</th><th>L</th><th>kg</th></tr><tr><td rowspan="3">1/4</td><td>R1/8</td><td>6509 56 10WP2</td><td>14</td><td>11</td><td>28</td><td>23.5</td><td>0.003</td></tr><tr><td>R1/4</td><td>6509 56 13WP2</td><td>14</td><td>11</td><td>28</td><td>23.5</td><td>0.004</td></tr><tr><td>R3/8</td><td>6509 56 17WP2</td><td>17</td><td>11</td><td>28</td><td>23.5</td><td>0.006</td></tr><tr><td rowspan="2">3/8</td><td>R1/4</td><td>6509 60 13WP2</td><td>19</td><td>16</td><td>38</td><td>34</td><td>0.010</td></tr><tr><td>R3/8</td><td>6509 60 17WP2</td><td>19</td><td>16</td><td>38</td><td>34</td><td>0.011</td></tr><tr><td rowspan="2">1/2</td><td>R3/8</td><td>6509 62 17WP2</td><td>24</td><td>22</td><td>50.5</td><td>46.5</td><td>0.024</td></tr><tr><td>R1/2</td><td>6509 62 21WP2</td><td>24</td><td>22</td><td>50.5</td><td>46.5</td><td>0.027</td></tr></table>	ØD	C		F	G	H	L	kg	1/4	R1/8	6509 56 10WP2	14	11	28	23.5	0.003	R1/4	6509 56 13WP2	14	11	28	23.5	0.004	R3/8	6509 56 17WP2	17	11	28	23.5	0.006	3/8	R1/4	6509 60 13WP2	19	16	38	34	0.010	R3/8	6509 60 17WP2	19	16	38	34	0.011	1/2	R3/8	6509 62 17WP2	24	22	50.5	46.5	0.024	R1/2	6509 62 21WP2	24	22	50.5	46.5	0.027
	ØD	C		F	G	H	L	kg																																																						
1/4	R1/8	6509 56 10WP2	14	11	28	23.5	0.003																																																							
	R1/4	6509 56 13WP2	14	11	28	23.5	0.004																																																							
	R3/8	6509 56 17WP2	17	11	28	23.5	0.006																																																							
3/8	R1/4	6509 60 13WP2	19	16	38	34	0.010																																																							
	R3/8	6509 60 17WP2	19	16	38	34	0.011																																																							
1/2	R3/8	6509 62 17WP2	24	22	50.5	46.5	0.024																																																							
	R1/2	6509 62 21WP2	24	22	50.5	46.5	0.027																																																							
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/16" (8 mm) also available. Thread without pre-coating; the body swivels for positioning purposes.																																																												

6508

Branch Tee, Male BSPT Thread



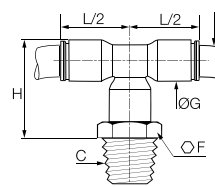

Bio-based polymer, EPDM



ØD	C		F	G	H	L/2	kg
6	R1/8	6508 06 10WP2	13	10.5	28	18	0.008
	R1/4	6508 06 13WP2	14	10.5	28	18	0.009
	R3/8	6508 06 17WP2	17	10.5	28	18	0.010
8	R1/8	6508 08 10WP2	19	13.5	34	23	0.012
	R1/4	6508 08 13WP2	19	13.5	34	23	0.013
	R3/8	6508 08 17WP2	19	13.5	34	23	0.013
10	R1/4	6508 10 13WP2	19	16	38	26.5	0.018
	R3/8	6508 10 17WP2	19	16	38	26.5	0.019
	R1/2	6508 10 21WP2	22	16	38	26.5	0.022
12	R3/8	6508 12 17WP2	22	19	44	31	0.024
	R1/2	6508 12 21WP2	22	19	44	31	0.026

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

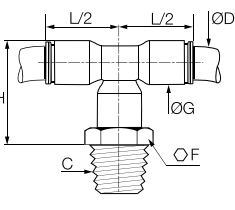
Thread without pre-coating; the body swivels for positioning purposes.

6508		Branch Tee, Male NPTF Thread		Inch						
		Bio-based polymer, EPDM								
										
ØD	C		F	G	H	L/2	kg			
1/4	NPT1/8	6508 56 11WP2	1/2	11	28	18	0.004			
	NPT1/4	6508 56 14WP2	9/16	11	28	18	0.005			
	NPT3/8	6508 56 18WP2	3/4	11	29	18	0.007			
3/8	NPT1/4	6508 60 14WP2	3/4	16	38	26	0.013			
	NPT3/8	6508 60 18WP2	3/4	16	38	26	0.013			
1/2	NPT3/8	6508 62 18WP2	15/16	22	50	35.5	0.031			
	NPT1/2	6508 62 22WP2	15/16	22	51	35.5	0.034			
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).										
Thread without pre-coating; the body swivels for positioning purposes.										

Stud Fittings

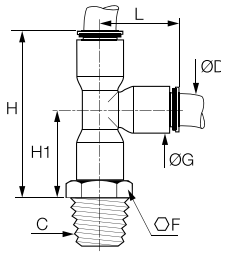
6508 Branch Tee, Male BSPT Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		F	G	H	L/2	kg
		R1/8	6508 56 10WP2		13	11	28	18	0.004
1/4		R1/4	6508 56 13WP2		14	11	28	18	0.005
		R3/8	6508 56 17WP2		17	11	28	18	0.007
3/8		R1/4	6508 60 13WP2		19	16	38	26	0.013
		R3/8	6508 60 17WP2		19	16	38	26	0.013
1/2		R3/8	6508 62 17WP2		24	22	50	35.5	0.032
		R1/2	6508 62 21WP2		24	22	50	35.5	0.032

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/16" (8 mm) also available.
Thread without pre-coating; the body swivels for positioning purposes.

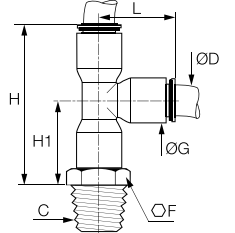
6503 Run Tee, Male BSPT Thread

 	Bio-based polymer, EPDM 	ØD	C		F	G	H	H1	L	kg
		R1/8	6503 06 10WP2		13	10.5	40	22	18.5	0.008
6		R1/4	6503 06 13WP2		14	10.5	40	22	18.5	0.009
		R3/8	6503 06 17WP2		17	10.5	40	22	18.5	0.010
8		R1/8	6503 08 10WP2		19	13.5	50	27	23	0.012
		R1/4	6503 08 13WP2		19	13.5	50	27	23	0.013
		R3/8	6503 08 17WP2		19	13.5	50	27	23	0.013
		R1/4	6503 10 13WP2		19	16	56.5	30	26.5	0.018
10		R3/8	6503 10 17WP2		19	16	56.5	30	26.5	0.019
		R1/2	6503 10 21WP2		22	16	56.5	30	26.5	0.022
12		R3/8	6503 12 17WP2		22	19	65.5	34.5	31	0.024
		R1/2	6503 12 21WP2		22	19	65.5	34.5	31	0.026

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
Thread without pre-coating; the body swivels for positioning purposes.

6503 Run Tee, Male NPTF Thread

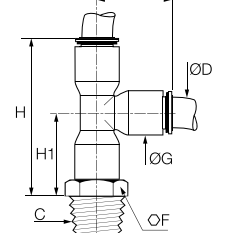
Inch

 	Bio-based polymer, EPDM 	ØD	C		F	G	H	H1	L	kg
		NPT1/8	6503 56 11WP2		1/2	11	40.5	22.5	18	0.004
1/4		NPT1/4	6503 56 14WP2		9/16	11	40.5	22.5	18	0.005
		NPT3/8	6503 56 18WP2		3/4	11	41.5	23	18	0.007
3/8		NPT1/4	6503 60 14WP2		3/4	16	56	30	26	0.013
		NPT3/8	6503 60 18WP2		3/4	16	56	30	26	0.013
1/2		NPT3/8	6503 62 18WP2		15/16	22	75	39.5	35.5	0.031
		NPT1/2	6503 62 22WP2		15/16	22	76	40.5	35.5	0.035

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
Thread without pre-coating; the body swivels for positioning purposes.

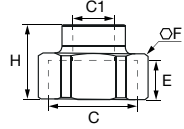
6503 Run Tee, Male BSPT Thread

Inch

 	Bio-based polymer, EPDM 	ØD	C		F	G	H	H1	L	kg
		R1/8	6503 56 10WP2		13	11	41.5	22.5	18	0.004
1/4		R1/4	6503 56 13WP2		14	11	41.5	22.5	18	0.005
		R3/8	6503 56 17WP2		17	11	41.5	23	18	0.007
3/8		R1/4	6503 60 13WP2		19	16	56	30	26	0.013
		R3/8	6503 60 17WP2		19	16	56	30	26	0.013
1/2		R3/8	6503 62 17WP2		24	22	75	39.5	35.5	0.032
		R1/2	6503 62 21WP2		24	22	75	39.5	35.5	0.035

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/16" (8 mm) also available.
Thread without pre-coating; the body swivels for positioning purposes.

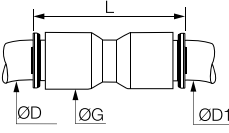
6355 Unequal Connector, Female BSPP Thread

 	Bio-based polymer 	C	C1		E	F	H	kg
		G3/4	G1/4	6355 13 27WP2	10	32	23.5	0.050

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

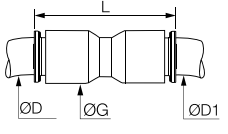
Tube-to-Tube Fittings

6306 Equal and Unequal Tube-to-Tube Connector

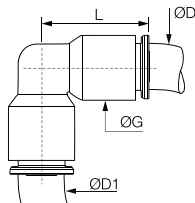
 	Bio-based polymer, EPDM 	ØD	ØD1		G	L	kg
		4	4	6306 04 00WP2	8.5	26.5	0.002
			6	6306 04 06WP2	10.5	29	0.002
			8	6306 04 08WP2	13.5	37	0.005
		6	6	6306 06 00WP2	10.5	30	0.004
			8	6306 06 08WP2	13.5	37	0.005
			10	6306 06 10WP2	16	42	0.007
		8	8	6306 08 00WP2	13.5	37	0.004
			10	6306 08 10WP2	16	42	0.007
			12	6306 08 12WP2	19	50	0.012
		10	10	6306 10 00WP2	16	42	0.009
			12	6306 10 12WP2	19	50	0.013
		12	12	6306 12 00WP2	19	50.5	0.009

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

6306 Equal and Unequal Tube-to-Tube Connector Inch

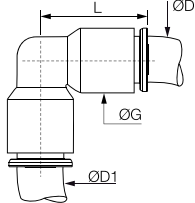
 	Bio-based polymer, EPDM 	ØD	ØD1		G	L	kg
		5/16	3/8	6306 08 60WP2	16	42	0.008
			1/2	6306 08 62WP2	22	55	0.018
		1/4	1/4	6306 56 00WP2	11	30	0.002
			5/16	6306 56 08WP2	13.5	37	0.007
			3/8	6306 56 60WP2	16	41	0.007
		3/8	3/8	6306 60 00WP2	16	42	0.006
			1/2	6306 60 62WP2	22	56	0.020
		1/2	1/2	6306 62 00WP2	22	57	0.016
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).					

6302 Equal and Unequal Elbow

 	Bio-based polymer, EPDM 	ØD	ØD1		G	L	kg
		4	4	6302 04 00WP2	8.5	19	0.002
			6	6302 04 06WP2	10.5	24	0.004
		6	6	6302 06 00WP2	10.5	24	0.004
			8	6302 06 08WP2	13.5	29.5	0.006
		8	8	6302 08 00WP2	13.5	29	0.004
			10	6302 08 10WP2	16	34.5	0.008
		10	10	6302 10 00WP2	16	34.5	0.005
			12	6302 10 12WP2	19	40.5	0.013
		12	12	6302 12 00WP2	19	40.5	0.010

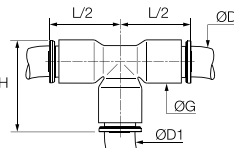
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

6302 Equal and Unequal Elbow Inch

 	Bio-based polymer, EPDM 	ØD	ØD1		G	L	kg
		5/16	3/8	6302 08 60WP2	16	34	0.009
			1/4	6302 56 00WP2	11	24	0.005
		1/4	5/16	6302 56 08WP2	13.5	29.5	0.006
			3/8	6302 56 60WP2	16	34	0.008
		3/8	3/8	6302 60 00WP2	16	34	0.006
			1/2	6302 60 62WP2	22	46.5	0.011
		1/2	1/2	6302 62 00WP2	22	46.5	0.017
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).					

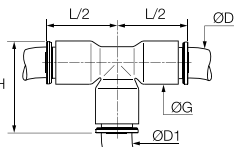
Tube-to-Tube Fittings

6304 Equal Tee

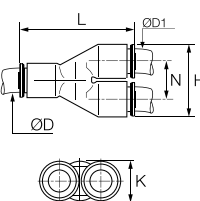
 	Bio-based polymer, EPDM 	ØD	ØD1		G	H	L/2	kg
		4	4	6304 04 00WP2	8.5	20	15.5	0.004
		6	6	6304 06 00WP2	10.5	23	18	0.006
		8	8	6304 08 00WP2	13.5	29	22.5	0.006
		10	10	6304 10 00WP2	16	34.5	26.5	0.009
		12	12	6304 12 00WP2	19	40	31	0.014
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).						

6304 Equal and Unequal Tee

Inch

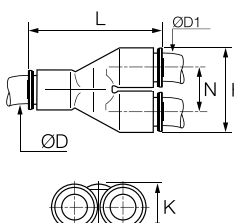
 	Bio-based polymer, EPDM 	ØD	ØD1		G	H	L/2	kg
		1/4	1/4	6304 56 00WP2	11	24	18	0.002
		3/8	3/8	6304 60 00WP2	16	34	26	0.009
			1/4	6304 60 56WP2	16	34	26	0.011
		1/2	1/2	6304 62 00WP2	22	47	36	0.027
			3/8	6304 62 60WP2	22	47	36	0.009
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.								

6340 Equal Single Y Piece

 	Bio-based polymer, EPDM 	ØD	ØD1		H	K	L	N	kg
		4	4	6340 04 00WP2	17.5	8.5	30	9	0.004
		6	6	6340 06 00WP2	21.5	10.5	36.5	11	0.008
		8	8	6340 08 00WP2	28	13.5	44.5	14.5	0.007
		10	10	6340 10 00WP2	33	16	53	17	0.010
		12	12	6340 12 00WP2	39	19	60.5	20	0.025
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).							

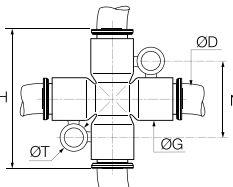
6340 Equal Single Y Piece

Inch

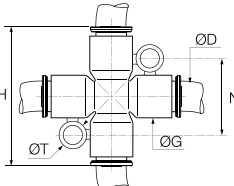
 	Bio-based polymer, EPDM 	ØD	ØD1		H	K	L	N	kg
		1/4	1/4	6340 56 00WP2	22	11	36	11.5	0.010
		3/8	3/8	6340 60 00WP2	33	16	53	17	0.011
		1/2	1/2	6340 62 00WP2	45	22	67	23	0.028
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).							
		5/32" (4 mm) and 5/16" (8 mm) also available.							

Tube-to-Tube and Bulkhead Connectors

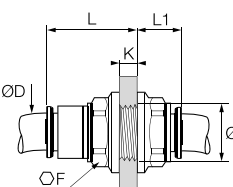
6307 Equal Cross

 		ØD		G	H	N	ØT	kg
		6	6307 06 00WP2	11	36	20	4.2	0.005
		8	6307 08 00WP2	13.5	45	22.5	4.2	0.020
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).						

6307 Equal Cross Inch

 		ØD		G	H	N	ØT	kg
		1/4	6307 56 00WP2	11	36	20	4.2	0.010
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/16" (8 mm) also available.						

6316 Equal Bulkhead Connector

 		ØD		F	K max	L	L1	ØT min	kg
		4	6316 04 00WP2	13	5.5	15.5	10.5	10.5	0.018
		6	6316 06 00WP2	15	8.5	20	10	12.5	0.004
		8	6316 08 00WP2	18	14.5	27	10.5	15.5	0.007
		10	6316 10 00WP2	22	14.5	30	13	18.5	0.012
		12	6316 12 00WP2	26	18.5	35	15.5	22.5	0.020
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).									

6316 Equal Bulkhead Union Inch

Bio-based polymer, EPDM

ØD

F

K
max

L

L1

ØT
min

kg

1/4

6316 56 00WP2

15

8.5

20

10

12.5

0.004

3/8

6316 60 00WP2

22

14.5

29.5

12.5

18.5

0.012

1/2

6316 62 00WP2

29

20.5

40.5

17

25.5

0.030

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).
5/32" (4 mm) and 5/16" (8 mm) also available.

Plug-In Fittings

6382 Equal and Unequal Plug-In Elbow

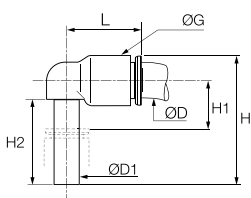
Bio-based polymer, EPDM

ØD	ØD1		G	H	H1	H2	L	kg
4	4	6382 04 00WP2	8.5	23	6	15.5	15	0.003
	6	6382 04 06WP2	10.5	26.5	7	17	16.5	0.002
6	6	6382 06 00WP2	10.5	26.5	7	17	17	0.003
	4	6382 06 04WP2	10.5	25	7	15.5	17	0.001
6	8	6382 06 08WP2	13.5	33.5	8	21.5	22.5	0.004
	8	6382 08 00WP2	13.5	33.5	8	21.5	22.5	0.004
8	10	6382 08 10WP2	16	39	9.5	24.5	26	0.007
	10	6382 10 00WP2	16	39	9.5	24.5	26.5	0.004
10	12	6382 10 12WP2	19	44.5	10	27	30	0.011
	12	6382 12 00WP2	19	44.5	10	27	31	0.012

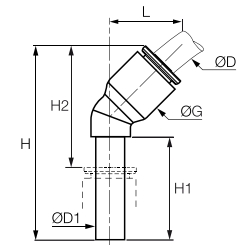
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

6382 Equal and Unequal Plug-In Elbow

Inch

		Bio-based polymer, EPDM		ØD	ØD1		G	H	H1	H2	L	kg	
				5/16	3/8		6382 08 60WP2	16	39	10	24.5	26	0.009
				1/4	1/4		6382 56 00WP2	11	30.5	11	18	18	0.002
					3/8		6382 56 60WP2	16	39	9	24.5	25.5	0.006
				3/8	3/8		6382 60 00WP2	16	39	9	24.5	26.5	0.005
				1/2	1/2		6382 62 00WP2	22	49	13	28.5	36	0.011
				These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). Equal plug-in elbow: 5/32" (4 mm) and 5/16" (8 mm) also available.									
													

6380 Plug-In 45° Equal Elbow

		Bio-based polymer, EPDM										
				ØD	ØD1		G	H	H1	H2	L	kg
				4	4	6380 04 00WP2	8.5	33.5	19	21	13	0.001
				6	6	6380 06 00WP2	11	39	21	25	14.5	0.002
				8	8	6380 08 00WP2	13.5	44	21.5	25.5	19.5	0.006
				10	10	6380 10 00WP2	16	53	27	32.5	23	0.004
				12	12	6380 12 00WP2	19	58	27	34	26	0.012
				These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).								

6383 Plug-In Equal Run Tee

Bio-based polymer, EPDM

ØD	ØD1		G	H	H1	H2	L	kg
4	4	6383 04 00WP2	8.5	33	6	15.5	15	0.002
6	6	6383 06 00WP2	10.5	38.5	7	17	18	0.002
8	8	6383 08 00WP2	13.5	49	8	21.5	23	0.005
10	10	6383 10 00WP2	16	57	10.5	25.5	26.5	0.012
12	12	6383 12 00WP2	19	65	36.5	27	31	0.016

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

6388 Plug-In Equal Branch Tee

Bio-based polymer, EPDM

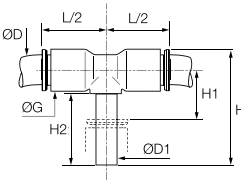
ØD	ØD1		G	H	H1	H2	L/2	kg
4	4	6388 04 00WP2	8.5	25	6	15.5	15	0.005
6	6	6388 06 00WP2	10.5	28.5	7	17	16	0.006
8	8	6388 08 00WP2	13.5	33.5	8	21.5	23	0.005
10	10	6388 10 00WP2	16	41	9.5	24.5	26.5	0.007
12	12	6388 12 00WP2	19	46.5	10	27	31	0.016

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

Plug-In Fittings and Accessories

6388 Plug-In Equal Branch Tee

Inch

 	Bio-based polymer, EPDM			ØD	ØD1		G	H	H1	H2	L/2	kg	
					1/4	1/4	6388 56 00WP2	11	30.5	11	20	18	0.002
					3/8	3/8	6388 60 00WP2	16	42	12	25	25	0.008
					1/2	1/2	6388 62 00WP2	22	51	13	29	32	0.020
	These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.												

6366 Plug-In Reducer

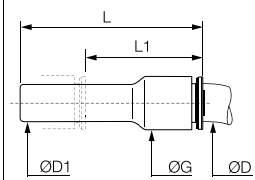
Bio-based polymer, EPDM

ØD	ØD1		G	L	L1	kg
4	6	6366 04 06WP2	8.5	38	23.5	0.004
	8	6366 04 08WP2	8.5	38	19	0.004
6	8	6366 06 08WP2	10.5	38	20	0.004
	10	6366 06 10WP2	10.5	39	17.5	0.002
8	10	6366 08 10WP2	13.5	48.5	28.5	0.009
	12	6366 08 12WP2	13.5	48.5	24.5	0.004
10	12	6366 10 12WP2	16	52	33.5	0.005
	14	6366 10 14WP2	16	53	33.5	0.005
12	14	6366 12 14WP2	19	55.5	33.5	0.023

These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).

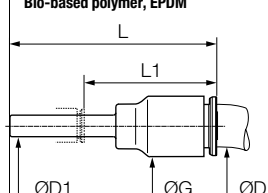
6366 Plug-In Reducer

Inch

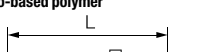
	Bio-based polymer, EPDM			ØD	ØD1	G	L	L1	kg		
				1/4	5/16	6366 56 08WP2	11	41	22.5	0.015	
					3/8	6366 56 60WP2	11	41	20.5	0.002	
				5/16	3/8	6366 08 60WP2	13.5	48.5	29	0.003	
					1/2	6366 08 62WP2	16	48.5	22	0.007	
				3/8	1/2	6366 60 62WP2	16	51	30	0.011	
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.											

6368 Plug-In Increaser

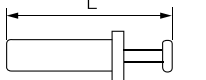
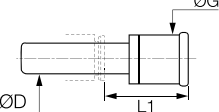
Inch

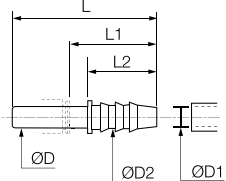
	Bio-based polymer, EPDM			ØD	ØD1		G	L	L1	kg
				3/8	5/16	6368 60 08WP2	16	44	25.5	0.004
	These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).									

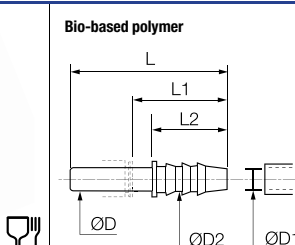
6326 Blanking Plug

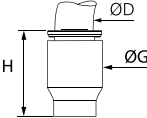
	Bio-based polymer			ØD	G	L	L1	kg					
				4	6	30	15.5	0.001					
				6	8	33	16.5	0.001					
				8	10	35	17.5	0.002					
				10	12	42	21	0.003					
				12	14	45	22	0.004					
									These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).				

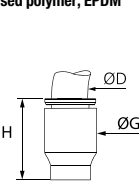
Accessories

6326		Blanking Plug		Inch				
 	Bio-based polymer  	ØD			G	L	L1	kg
		1/4		6326 56 00WP2	8	36.5	22	0.001
		3/8		6326 60 00WP2	11.6	42.5	22	0.002
		1/2		6326 62 00WP2	14.7	48.5	21.5	0.004
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32 (4 mm) and 5/16 (8 mm) also available						

6322		Plug-In Barb Connector							
 		Bio-based polymer							
		ØD	ØD1	ØD2		L	L1	L2	kg
		6	4	7	6322 06 04WP2	39	25	17	0.004
		8	6	8.5	6322 08 06WP2	43	25	17	0.005
		10	7	8	6322 10 07WP2	50	29.5	22	0.006
		12	12.5	15.5	6322 12 62WP2	56	32	27.5	0.004
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).									

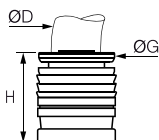
6322		Plug-In Barb Connector				Inch			
		Bio-based polymer							
		ØD	ØD1	ØD2		L	L1	L2	kg
		1/4	0.28	0.32	6322 56 56WP2	39	24.5	17	0.001
			0.33	0.38	6322 60 08WP2	50	29.5	22	0.001
		3/8	0.28	0.32	6322 60 56WP2	45	24.5	17	0.008
			0.40	0.45	6322 60 60WP2	50	29	22	0.002
		1/2	0.40	0.45	6322 62 60WP2	58	37.5	30	0.005
These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).									

6351		End Cap				
 	Bio-based polymer, EPDM 	ØD		G	H	kg
		4	6351 04 00WP2	8.5	15	0.001
		6	6351 06 00WP2	10.5	17	0.002
		8	6351 08 00WP2	13.5	21.5	0.003
		10	6351 10 00WP2	16	22	0.003
		12	6351 12 00WP2	19	27.5	0.006
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters).				

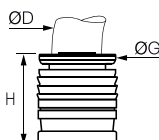
6351		End Cap		Inch				
		Bio-based polymer, EPDM		ØD		G	H	kg
				1/4	6351 56 00WP2	11	16	0.001
				3/8	6351 60 00WP2	16	22.5	0.003
		These part numbers are also available in WP3 = high volumes (number of parts per bag: 40, 50 or 100, depending on the diameters). 5/32" (4 mm) and 5/16" (8 mm) also available.						

Polymer Cartridges for Fluids and Gases

6300 LIQUIfit® Cartridge

	Brass, EPDM		ØD		G	G1	H	L	kg
			4	6300 04 00	8	11	10	554	0.002
			6	6300 06 00	10	14.5	11.5	629	0.002
			8	6300 08 00	13	15	15	794	0.003
			10	6300 10 00	15.5	19.5	17	930	0.005
			12	6300 12 00	18.5	21	19.5	1038	0.010
			50 cartridges per Carstick®						

6300 LIQUIfit® Cartridge Inch

	Brass, EPDM				G	G1	H	L	kg	
			ØD							
			1/4	6300 56 00	10.5	14.5	12.5	600	0.002	
			3/8	6300 60 00	15.5	19	17	930	0.005	
			1/2	6300 62 00	22	25	23	1038	0.011	
50 cartridges per Carstick® 5/32" (4 mm) and 5/16" (8 mm) also available										

LIQUIfit® Cavity Dimensions

LIQUIfit® Carstick® Metric

Cavity	ØD3	H	H1	H2
4	4.1	10	6	8.15
6	6.1	12	7.5	9.65
8	8.15	15.5	9.9	12.45
10	10.25	19	11.7	14.35
12	12.17	22	13.9	16.75

LIQUIfit® Carstick® Inch

Cavity	ØD3	H	H1	H2
1/8	3.25	7.45	5.3	9.5
5/32*	4.1	8.15	6	10
1/4	6.45	10.15	8	12.5
5/16*	8.15	12.45	9.9	15.5
3/8	9.65	14.35	11.7	19

Polyamide Cavity

Cavity	ØD1	ØD2	N	K
4	8.25	7.05	9.8	1.5
6	10.2	9.15	12.2	2
8	12.15	10.85	14.2	2
10	14.8	13.2	16.8	2
12	17.5	15.5	20	2.5

Cavity	ØD1	ØD2	N	K
1/8	7.05	6.02	8.6	1.5
5/32*	8.25	7.05	9.75	1.5
1/4	10.55	9.35	12.6	2
5/16*	12.15	10.85	14.2	2
3/8	14.8	13.1	16.8	2

Aluminium Cavity

Cavity	ØD1	ØD2	N	K
4	8.25	7.5	11.5	3
6	10.3	9.15	13.5	3
8	12.2	10.85	15.2	3
10	15.05	13.2	17.1	2
12	17.5	15.5	20	2.5

Cavity	ØD1	ØD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	11.25	3
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	15.2	3
3/8	15.05	13.1	17.1	2

Brass Cavity

Cavity	ØD1	ØD2	N	K
4	8.25	7.05	10.25	2
6	10.25	9.1	12.25	2
8	12.2	10.85	14.25	2
10	15.05	13.2	17.1	2
12	17.65	15.5	20	2.5

Cavity	ØD1	ØD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	10.25	2
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	14.25	2
3/8	10.05	13.1	17.1	2

Please consult us for detailed drawings of cavity dimensions and tolerances.

All our dimensions are in millimeters.

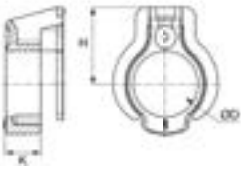
Please consult us for detailed drawings of cavity dimensions and tolerances.

All our dimensions are in millimeters.

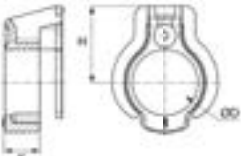
*5/32" = 4 mm and 5/16" = 8 mm

Accessories

3130 Tamper-Proof Safety Clip

Technical polymer	ØD							H	K	kg
	4	3130 04 01	3130 04 02	3130 04 03	3130 04 04	3130 04 05	3130 04 10	6.60	3.00	0.001
	6	3130 06 01	3130 06 02	3130 06 03	3130 06 04	3130 06 05	3130 06 10	7.80	3.10	0.001
	8	3130 08 01	3130 08 02	3130 08 03	3130 08 04	3130 08 05	3130 08 10	9.50	4.30	0.001
	10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10	10.80	4.20	0.002
	12	3130 12 01	3130 12 02	3130 12 03	3130 12 04	3130 12 05	3130 12 10	12.50	5.10	0.003
	14	3130 14 01	3130 14 02	3130 14 03	3130 14 04	3130 14 05	3130 14 10	12.50	5.10	0.004

3130 Tamper-Proof Safety Clip Inch

Technical polymer	ØD							H	K	kg
	1/4	3130 56 01	3130 56 02	3130 56 03	3130 56 04	3130 56 05	3130 56 10	7.80	3.10	0.001
	3/8	3130 60 01	3130 60 02	3130 60 03	3130 60 04	3130 60 05	3130 60 10	10.80	4.20	0.002
	1/2	3130 62 01	3130 62 02	3130 62 03	3130 62 04	3130 62 05	3130 62 10	12.50	5.10	0.003
	5/32" (4 mm) and 5/16" (8 mm) also available									

3110 Coloured Release Button Covers

Technical polymer	ØD						kg
	4	3110 04 00	3110 04 02	3110 04 03	3110 04 04	3110 04 05	0.001
	6	3110 06 00	3110 06 02	3110 06 03	3110 06 04	3110 06 05	0.001
	8	3110 08 00	3110 08 02	3110 08 03	3110 08 04	3110 08 05	0.001
	10	3110 10 00	3110 10 02	3110 10 03	3110 10 04	3110 10 05	0.001
	12	3110 12 00	3110 12 02	3110 12 03	3110 12 04	3110 12 05	0.001
	14	3110 14 00	3110 14 02	3110 14 03	3110 14 04	3110 14 05	0.002

3110 Coloured Release Button Covers Inch

Technical polymer	ØD						kg
	1/4	3110 56 00	3110 56 02	3110 56 03	3110 56 04	3110 56 05	0.001
	3/8	3110 60 00	3110 60 02	3110 60 03	3110 60 04	3110 60 05	0.001
	1/2	3110 62 00	3110 62 02	3110 62 03	3110 62 04	3110 62 05	0.001
	5/32" (4 mm) and 5/16" (8 mm) also available						

0605 Fluoropolymer Tape

	FKM		kg
		0605 12 12	0.012
	Can be used for temperatures from - 250°C to +260°C. Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam, etc. Non-toxic, waterproof, self-lubricating. In accordance with CFR21. Can be used on all materials. Used to facilitate the preparation of leak-free threaded joints. Supplied on a reel: length = 12 m; width = 12.7 mm; thickness = 0.08 mm.		

3000 71 00 Tube Cutter

	Technical polymer		H	L	kg
		3000 71 00	25	79	0.029
	This tool is designed to give a clean cut at right angles to the tube axis for all resilient polymer tubing (polyamide, polyurethane, FEP, polyethylene, etc.) from 4 mm to 12 mm diameter inclusive. Replacement blades: part number 3000 71 00 05 A spring maintains the cutter in the closed position.				

LIQUIfit+ Push-In Fittings

For the transfer of sensitive fluids, the LIQUIfit+ range **reduces the growth of bacteria** in your circuits **for 100% cleanliness after cleaning**, and can be **directly** connected to stainless steel tubing, without grooving.

Product Advantages

Zero Retention for 100% Cleanliness

- Up to 10 times less microbial growth within the fitting
- Elimination of 99.9% of bacteria during cleaning operations
- No degradation of the beverage taste
- Preservation of the integrity of sensitive or industrial fluids
- Extension of the fitting's life due to the absence of bacteria after cleaning

Quality & Reliability

- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Quality approved for contact with food
- Excellent chemical resistance (chlorine, cleaning agents, UV...)
- Excellent long-term mechanical resistance
- Safety clip to avoid any untimely disconnection

Innovative Technology

- Patented push-in connection, unique on stainless steel tubing for diameters 5/16" and 1/2" (without preparation) and on polymer tubing
- Extremely compact
- 100% bio-based material
- Patented sealing technology (FR29461418)
- No tube movement after connection



Food Process
Medical
Beverage Dispensers
Pharmaceutical
Chemical
Brewing

Applications

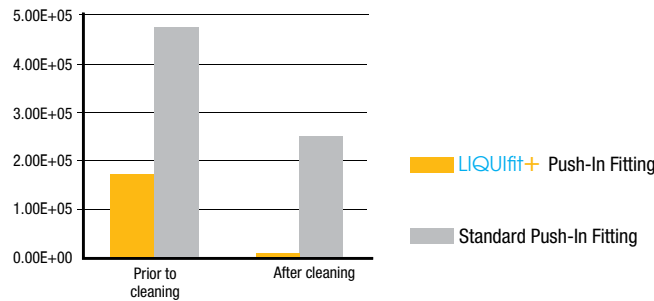
Technical Characteristics

Compatible Fluids	Beer, water, beverages, industrial fluids
Working Pressure	Vacuum to 16 bar
Working Temperature	-10°C to +95°C (see LIQUIfit® chart p. 13)

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

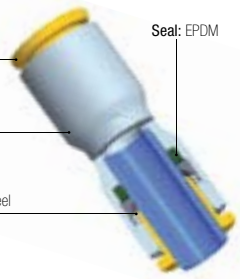
Cleaning Efficiency

Comparison of the contamination by micro-organisms before and after cleaning operations (cfu/surface)*



Component Materials

- Release button: technical polymer
- Body: bio-polymer
- Gripping ring: stainless steel
- Seal: EPDM



Silicone-free

Regulations

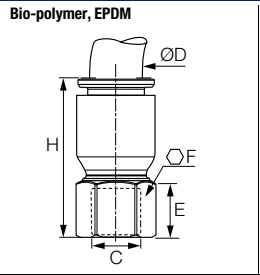
- DI: 2002/95/EC (RoHS), 2011/65/EC
- RG: 1935/2004/EC
- FDA: 21 CFR
- NSF51
- NSF/ANSI 61 - C HOT
- WRAS
- RG: 1907/2006 (REACH)

LIQUIfit+ Push-In Fittings

6333

Stud Fitting, Female BSPP Thread

Inch

	Bio-polymer, EPDM 	ØD	C		E	F	H	kg
		3/8	G1/2	6333 60 21WP3	14	11	30	0.010
		3/8	G5/8	6333 60 23WP3	14	13	36	0.016
		WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).						

6336

Equal and Unequal Tube-to-Tube Connector

Inch

Bio-polymer, EPDM

ØD	ØD1		ØG	L	kg
5/16		6336 08 00WP3	13.5	37	0.004
5/16	3/8	6336 08 60WP3	16	42	0.008
	1/2	6336 08 62WP3	22	55	0.016
3/8	3/8	6336 60 00WP3	16	42	0.006
	1/2	6336 60 62WP3	22	56	0.020
1/2	1/2	6336 62 00WP3	22	57	0.016
WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).					

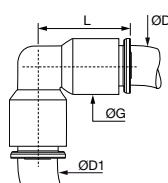
6332

Equal and Unequal Elbow

Inch




Bio-polymer, EPDM



ØD	ØD1		ØG	L	kg
5/16	5/16	6332 08 00WP3	13.5	29	0.004
	3/8	6332 08 60WP3	16	34	0.009
3/8	3/8	6332 60 00WP3	16	34	0.006
	1/2	6332 60 62WP3	22	46.5	0.011
1/2	1/2	6332 62 00WP3	22	46.5	0.017

WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).

6331

Equal Plug-In Elbow

Inch

Bio-polymer, EPDM

ØD ØD1 

ØG H H1 H2 L kg

5/16	5/16	6331 08 00WP3	13.5	33.5	8	21.5	22.5	0.004
3/8	3/8	6331 60 00WP3	16	39	9	24.5	26.5	0.005

WP3 suffix = high volume (number of parts per bag: 40, 50 or 100 depending on the diameters).

Use with Stainless Steel Tubing

- Valid exclusively for diameters 5/16" and 1/2".
- These fittings are appowed for use with 304 and 316L stainless steel tubing, 160 Hv, with tolerances on the external diameter +0.05/-0.10 mm.
- Carefully deburr the stainless steel tube end.
- For easy disconnection, press firmly on the release button.
- After 5 connections/disconnections, we recommend that you change the fitting.



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
Optimal Performance	Gripping system preventing any pumping effect
	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	Excellent robustness for a long lifespan
	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



Industrial Fluids
Beverage Process
Inert Gases
Cooling Systems
Food Process

Applications

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

Labels in diagram:
Body: bio-based polymer
Release button: technical polymer
Gripping ring: stainless steel
Adaptor: stainless steel 316L or FDA chemical nickel-plated brass
Seals: EPDM

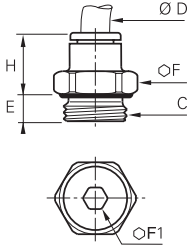
Silicone-free

Regulations

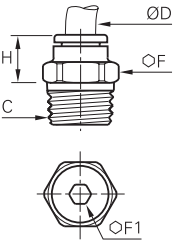
DI: 2002/95/EC (RoHS), 2011/65/EC
RG: 1935/2004/EC
FDA: 21 CFR
NSF 51 (pending)
NSF/ANSI 61 (pending, for stainless steel version only)
RG: 1907/2006 (REACH)

Stud Fittings with Stainless Steel Adaptor

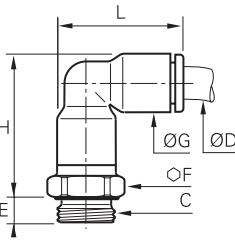
6911 Stud Fitting, Male BSPP and Metric Thread

	Stainless steel 316L, EPDM			ØD	C		E	F	F1	H	Kg
				4	M5x0.8		3	10	2.5	14	0.006
				4	G1/8		4.5	13	3	11.5	0.007
					G1/4		5.5	16	3	10.5	0.011
					M5x0.8		3	10	2.5	16	0.005
				6	G1/8		4.5	13	4	13	0.007
					G1/4		5.5	16	4	12.5	0.011
					G1/8		4.5	13	5	20.5	0.011
				8	G1/4		5.5	16	6	19.5	0.016
					G3/8		5.5	21	6	18	0.022
					G1/4		5.5	16	7	23	0.018
				10	G3/8		5.5	21	8	19.5	0.021
					G1/2		7	24	8	18	0.033
					G3/8		5.5	21	9	27	0.029
				12	G1/2		7	24	10	22.5	0.035

6975 Stud Fitting, Male BSPT Thread

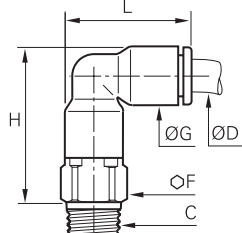
	Stainless steel 316L, EPDM			ØD	C		F	F1	H	Kg
				4	R1/8		10	3	9.5	0.005
				4	R1/4		14	3	6.5	0.012
					R1/8		10	4	11.5	0.005
				6	R1/4		14	4	8.5	0.011
					R1/8		13	5	20	0.011
				8	R1/4		14	6	17	0.014
					R3/8		17	6	13	0.021
					R1/4		16	7	20	0.017
				10	R3/8		17	8	16.5	0.019
					R1/2		21	8	14	0.037
					R3/8		19	9	24	0.028
				12	R1/2		21	10	19.5	0.036

6959 Stud Elbow, Male BSPP and Metric Thread

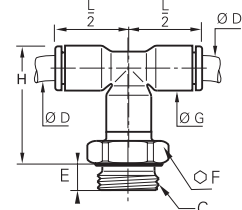
	Bio-based polymer, stainless steel 316L, EPDM			ØD	C		E	F	G	H	L	Kg
				4	M5x0.8		3.5	10	8.5	23	19	0.009
					G1/8		4.5	13	8.5	22.5	19	0.009
					G1/4		5.5	16	8.5	22.5	19	0.014
				6	M5x0.8		3.5	10	10.5	26.5	22.5	0.008
					G1/8		4.5	13	10.5	26.5	22.5	0.011
					G1/4		5.5	16	10.5	26.5	22.5	0.016
				8	G1/8		4.5	13	13.5	35	29.5	0.018
					G1/4		5.5	16	13.5	33	29.5	0.020
					G3/8		5.5	21	13.5	33	29.5	0.028
				10	G1/4		5.5	16	16	40.5	34	0.029
					G3/8		5.5	21	16	39	34	0.037
					G1/2		7	24	16	39	34	0.042
				12	G3/8		5.5	21	19	42	40	0.040
					G1/2		7	24	19	42	40	0.049

Stud Fittings with Stainless Steel Adaptor

6979 Stud Elbow, Male BSPT Thread

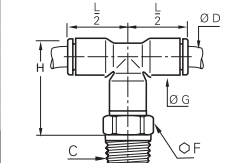
		Bio-based polymer, stainless steel 316L, EPDM		ØD	C		F	G	H	L	Kg
				4	R1/8	6979 04 10	10	8.5	23	19	0.008
					R1/4	6979 04 13	14	8.5	23.5	19	0.018
				6	R1/8	6979 06 10	10	10.5	27	22.5	0.010
					R1/4	6979 06 13	14	10.5	27.5	22.5	0.020
				8	R1/8	6979 08 10	13	13.5	33.5	29.5	0.018
					R1/4	6979 08 13	14	13.5	32.5	29.5	0.022
					R3/8	6979 08 17	17	13.5	33	29.5	0.032
				10	R1/4	6979 10 13	15	16	39.5	34	0.031
					R3/8	6979 10 17	17	16	39.5	34	0.041
				12	R1/2	6979 10 21	21	16	39.5	34	0.060
					R3/8	6979 12 17	19	19	45.5	40.5	0.051
					R1/2	6979 12 21	21	19	45.5	40.5	0.065

6958 Stud Branch Tee, Male BSPP and Metric Thread

		Bio-based polymer, stainless steel 316L, EPDM		ØD	C		E	F	G	H	L/2	Kg
				4	M5x0.8	6958 04 19	3.5	10	8.5	24	14	0.010
					G1/8	6958 04 10	5	13	8.5	22	14	0.022
					G1/4	6958 04 13	5.5	16	8.5	22	14	0.012
				6	M5x0.8	6958 06 19	3.5	10	10.5	30	16	0.024
					G1/8	6958 06 10	5	13	10.5	28.5	16	0.022
					G1/4	6958 06 13	5.5	16	10.5	28.5	16	0.027
				8	G1/8	6958 08 10	4.5	13	13.5	38	23	0.039
					G1/4	6958 08 13	5.5	16	13.5	36	23	0.038
					G3/8	6958 08 17	5.5	21	13.5	36	23	0.050
				10	G1/4	6958 10 13	5.5	16	16	43	26.5	0.073
					G3/8	6958 10 17	5.5	21	16	43	26.5	0.062
				12	G1/2	6958 10 21	7.5	24	16	43	26.5	0.079
					G3/8	6958 12 17	5.5	21	19	45.5	31	0.026
					G1/2	6958 12 21	7	24	19	45.5	31	0.036

These products are available upon request, with minimum order quantity of 100 pieces.

6978 Stud Branch Tee, Male BSPT Thread

		Bio-based polymer, stainless steel 316L, EPDM		ØD	C		F	G	H	L/2	Kg
				4	R1/8	6978 04 10	10	8.5	17	14	0.009
					R1/4	6978 04 13	14	8.5	17	14	0.020
				6	R1/8	6978 06 10	10	10.5	23	16	0.011
					R1/4	6978 06 13	14	10.5	23	16	0.022
				8	R1/8	6978 08 10	13	13.5	30	23	0.020
					R1/4	6978 08 13	14	13.5	30	23	0.024
					R3/8	6978 08 17	17	13.5	30	23	0.035
				10	R1/4	6978 10 13	15	16	34.5	26.5	0.034
					R3/8	6978 10 17	17	16	34.5	26.5	0.045
				12	R1/2	6978 10 21	21	16	34.5	26.5	0.066
					R3/8	6978 12 17	19	19	40.5	31	0.056
					R1/2	6978 12 21	21	19	40.5	31	0.072

These products are available upon request, with minimum order quantity of 100 pieces.

Stud Fittings with Stainless Steel Adaptor

6953 Stud Run Tee, Male BSPP and Metric Thread

Bio-based polymer, stainless steel 316L, EPDM

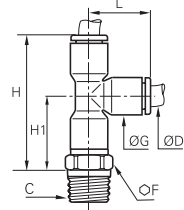
ØD	C		E	F	G	H	H1	L	Kg
4	M5x0.8	6953 04 19	3.5	10	8.5	32	19	14.5	0.010
	G1/8	6953 04 10	5	13	8.5	30	18	14.5	0.022
	G1/4	6953 04 13	5.5	16	8.5	30	18	14.5	0.012
6	M5x0.8	6953 06 19	3.5	10	10.5	39	23	17.5	0.024
	G1/8	6953 06 10	5	13	10.5	38	22	17.5	0.022
	G1/4	6953 06 13	5.5	16	10.5	38	22	17.5	0.027
8	G1/8	6953 08 10	4.5	13	13.5	54	31	23	0.039
	G1/4	6953 08 13	5.5	16	13.5	52	29	23	0.038
	G3/8	6953 08 17	5.5	21	13.5	52	29	23	0.050
10	G1/4	6953 10 13	5.5	16	16	61	35	26.5	0.073
	G3/8	6953 10 17	5.5	21	16	61	35	26.5	0.062
	G1/2	6953 10 21	7.5	24	16	61	35	26.5	0.079
12	G3/8	6953 12 17	5.5	21	19	67	36	31	0.026
	G1/2	6953 12 21	7	24	19	67	36	31	0.042

These products are available upon request, with minimum order quantity of 100 pieces.

6973 Stud Run Tee, Male BSPT Thread



Bio-based polymer, stainless steel 316L, EPDM



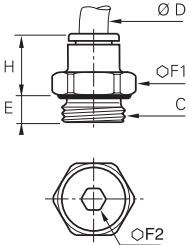


ØD	C		F	G	H	H1	L	Kg
4	R1/8	6973 04 10	10	8.5	31	18	14.5	0.009
	R1/4	6973 04 13	14	8.5	31	19	14.5	0.020
6	R1/8	6973 06 10	10	10.5	38	22	17.5	0.011
	R1/4	6973 06 13	14	10.5	39	23	17.5	0.022
8	R1/8	6973 08 10	13	13.5	53	30	23	0.020
	R1/4	6973 08 13	14	13.5	52	29	23	0.024
	R3/8	6973 08 17	17	13.5	52	29	23	0.035
10	R1/4	6973 10 13	15	16	61	35	26.5	0.034
	R3/8	6973 10 17	17	16	61	35	26.5	0.045
	R1/2	6973 10 21	21	16	61	35	26.5	0.066
12	R3/8	6973 12 17	19	19	70	39	31	0.056
	R1/2	6973 12 21	21	19	70	39	31	0.072

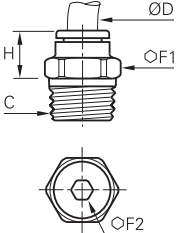
These products are available upon request, with minimum order quantity of 100 pieces.

Stud Fittings with FDA Chemical Nickel-Plated Brass Adaptor

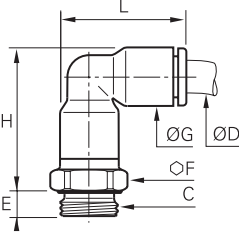
6901 Stud Fitting, Male BSPP and Metric Thread

		FDA chemical nickel plated brass, EPDM		ØD	C		E	F	F1	H	Kg
				4	M5x0.8	6901 04 19	3	8	2.5	14	0.003
					G1/8	6901 04 10	5.5	13	3	11.5	0.007
					G1/4	6901 04 13	5.5	16	3	10.5	0.011
				6	M5x0.8	6901 06 19	3	10	2.5	16	0.005
					G1/8	6901 06 10	4.5	13	4	13	0.007
					G1/4	6901 06 13	5.5	16	4	12.5	0.011
				8	G1/8	6901 08 10	4.5	13	5	20.5	0.011
					G1/4	6901 08 13	5.5	16	6	19.5	0.016
					G3/8	6901 08 17	5.5	20	6	18	0.022
				10	G1/4	6901 10 13	5.5	16	7	23	0.018
					G3/8	6901 10 17	5.5	20	8	19.5	0.021
					G1/2	6901 10 21	7	24	8	18	0.033
				12	G3/8	6901 12 17	5.5	20	9	27	0.029
					G1/2	6901 12 21	7	24	10	22.5	0.035

6905 Stud Fitting, Male BSPT Thread

		FDA chemical nickel plated brass, EPDM		ØD	C		F	F1	H	Kg
				4	R1/8	6905 04 10	10	3	9.5	0.005
					R1/4	6905 04 13	14	3	6.5	0.012
				6	R1/8	6905 06 10	10	4	11.5	0.005
					R1/4	6905 06 13	14	4	8.5	0.011
				8	R1/8	6905 08 10	13	5	20	0.011
					R1/4	6905 08 13	14	6	17	0.014
					R3/8	6905 08 17	17	6	13	0.021
				10	R1/4	6905 10 13	16	7	20	0.017
					R3/8	6905 10 17	17	8	16.5	0.019
					R1/2	6905 10 21	21	8	14	0.037
				12	R3/8	6905 12 17	19	9	24	0.028
					R1/2	6905 12 21	21	10	19.5	0.036

6999 Stud Elbow, Male BSPP and Metric Thread

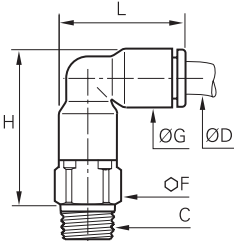
		Bio-based polymer, FDA chemical nickel plated brass, EPDM		ØD	C		E	F	G	H	L	Kg
				4	M5x0.8	6999 04 19	3.5	8	8.5	23	19	0.005
					G1/8	6999 04 10	4.5	13	8.5	22.5	19	0.009
					G1/4	6999 04 13	5.5	16	8.5	22.5	19	0.014
				6	M5x0.8	6999 06 19	3.5	10	10.5	26.5	22.5	0.008
					G1/8	6999 06 10	4.5	13	10.5	26.5	22.5	0.011
					G1/4	6999 06 13	5.5	16	10.5	26.5	22.5	0.016
				8	G1/8	6999 08 10	4.5	13	13.5	35	29.5	0.018
					G1/4	6999 08 13	5.5	16	13.5	33	29.5	0.020
					G3/8	6999 08 17	5.5	20	13.5	33	29.5	0.028
				10	G1/4	6999 10 13	5.5	16	16	40.5	34	0.029
					G3/8	6999 10 17	5.5	20	16	39	34	0.037
					G1/2	6999 10 21	7	24	16	39	34	0.042
				12	G3/8	6999 12 17	5.5	20	19	42	40	0.040
					G1/2	6999 12 21	7	24	19	42	40	0.049

Stud Fittings with FDA Chemical Nickel-Plated Brass Adaptor

6909 Stud Elbow, Male BSPT Thread



Bio-based polymer, FDA chemical nickel plated brass, EPDM





ØD	C		F	G	H	L	Kg
4	R1/8	6909 04 10	10	8.5	23	19	0.008
	R1/4	6909 04 13	14	8.5	23.5	19	0.018
6	R1/8	6909 06 10	10	10.5	27	22.5	0.010
	R1/4	6909 06 13	14	10.5	27.5	22.5	0.020
8	R1/8	6909 08 10	13	13.5	33.5	29.5	0.018
	R1/4	6909 08 13	14	13.5	32.5	29.5	0.022
	R3/8	6909 08 17	17	13.5	33	29.5	0.032
10	R1/4	6909 10 13	15	16	39.5	34	0.031
	R3/8	6909 10 17	17	16	39.5	34	0.041
	R1/2	6909 10 21	21	16	39.5	34	0.060
12	R3/8	6909 12 17	19	19	45.5	40.5	0.051
	R1/2	6909 12 21	21	19	45.5	40.5	0.065

6998 Stud Branch Tee, Male BSPP and Metric Thread

Bio-based polymer, FDA chemical
nickel plated brass, EPDM

ØD	C		E	F	G	H	L/2	Kg
4	M5x0.8	6998 04 19	3.5	8	8.5	24	14	0.010
	G1/8	6998 04 10	5	13	8.5	22	14	0.022
	G1/4	6998 04 13	5.5	16	8.5	22	14	0.012
6	M5x0.8	6998 06 19	3.5	10	10.5	30	16	0.024
	G1/8	6998 06 10	5	13	10.5	29	16	0.022
	G1/4	6998 06 13	5.5	16	10.5	29	16	0.027
8	G1/8	6998 08 10	4.5	13	13.5	38	23	0.039
	G1/4	6998 08 13	5.5	16	13.5	36	23	0.038
	G3/8	6998 08 17	5.5	20	13.5	36	23	0.050
10	G1/4	6998 10 13	5.5	16	16	43	26.5	0.073
	G3/8	6998 10 17	5.5	20	16	43	26.5	0.062
	G1/2	6998 10 21	7.5	24	16	43	26.5	0.079
12	G3/8	6998 12 17	5.5	20	19	45.5	31	0.026
	G1/2	6998 12 21	7	24	19	45.5	31	0.036

These products are available upon request, with minimum order quantity of 100 pieces.

6908 Stud Branch Tee, Male BSPT Thread

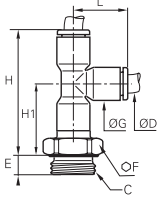
Bio-based polymer, FDA chemical
nickel plated brass, EPDM

ØD	C		F	G	H	L/2	Kg
4	R1/8	6908 04 10	10	8.5	17	14	0.009
	R1/4	6908 04 13	14	8.5	17	14	0.020
6	R1/8	6908 06 10	10	10.5	23	16	0.011
	R1/4	6908 06 13	14	10.5	23	16	0.022
8	R1/8	6908 08 10	13	13.5	30	23	0.020
	R1/4	6908 08 13	14	13.5	30	23	0.024
	R3/8	6908 08 17	17	13.5	30	23	0.035
10	R1/4	6908 10 13	15	16	34.5	26.5	0.034
	R3/8	6908 10 17	17	16	34.5	26.5	0.045
	R1/2	6908 10 21	21	16	34.5	26.5	0.066
12	R3/8	6908 12 17	19	19	40.5	31	0.056
	R1/2	6908 12 21	21	19	40.5	31	0.072

These products are available upon request, with minimum order quantity of 100 pieces.

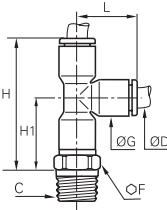
Stud Fittings with FDA Chemical Nickel-Plated Brass Adaptor

6993 Stud Run Tee, Male BSPP and Metric Thread

 	Bio-based polymer, FDA chemical nickel plated brass, EPDM									
	ØD	C		E	F	G	H	H1	L	Kg
	4	M5x0.8	6993 04 19	3.5	8	8.5	32	19	14.5	0.010
		G1/8	6993 04 10	5	13	8.5	30	18	14.5	0.022
		G1/4	6993 04 13	5.5	16	8.5	30	18	14.5	0.012
	6	M5x0.8	6993 06 19	3.5	10	10.5	39	23	17.5	0.024
		G1/8	6993 06 10	5	13	10.5	38	22	17.5	0.022
		G1/4	6993 06 13	5.5	16	10.5	38	22	17.5	0.027
	8	G1/8	6993 08 10	4.5	13	13.5	54	31	23	0.039
		G1/4	6993 08 13	5.5	16	13.5	52	29	23	0.038
		G3/8	6993 08 17	5.5	20	13.5	52	29	23	0.050
	10	G1/4	6993 10 13	5.5	16	16	61	35	26.5	0.073
		G3/8	6993 10 17	5.5	20	16	61	35	26.5	0.062
		G1/2	6993 10 21	7.5	24	16	61	35	26.5	0.079
	12	G3/8	6993 12 17	5.5	20	19	67	36	31	0.026
		G1/2	6993 12 21	7	24	19	67	36	31	0.042

These products are available upon request. with minimum order quantity of 100 pieces.

6903 Stud Run Tee, Male BSPT Thread

 	Bio-based polymer, FDA chemical nickel plated brass, EPDM									
	ØD	C		F	G	H	H1	L	Kg	
	4	R1/8	6903 04 10	10	8.5	31	18	14.5	0.009	
		R1/4	6903 04 13	14	8.5	31	19	14.5	0.020	
	6	R1/8	6903 06 10	10	10.5	38	22	17.5	0.011	
		R1/4	6903 06 13	14	10.5	39	23	17.5	0.022	
	8	R1/8	6903 08 10	13	13.5	53	30	23	0.020	
		R1/4	6903 08 13	14	13.5	52	29	23	0.024	
	10	R3/8	6903 08 17	17	13.5	52	29	23	0.035	
		R1/4	6903 10 13	15	16	61	35	26.5	0.034	
		R3/8	6903 10 17	17	16	61	35	26.5	0.045	
	12	R1/2	6903 10 21	21	16	61	35	26.5	0.066	
		R3/8	6903 12 17	19	19	70	39	31	0.056	
		R1/2	6903 12 21	21	19	70	39	31	0.072	

These products are available upon request. with minimum order quantity of 100 pieces.



Advanced PE Tubing

Parker Legris **"Advanced PE" 50% reticulated** is designed for demanding environments, especially that of water treatment, without compromising operator **safety**.

Product Advantages

Advanced PE	50% reticulated material
	Best balance between flexibility and pressure/temperature resistance
	Resistant to a wide range of aggressive chemicals
	UV-stabilised: ideal for outdoor applications
	Approved for permanent contact with food and beverages
	Silicone-free



Applications

- Beverage
- Chemical
- Petrochemical
- Food Process
- Water
- Water Treatment

Technical Characteristics

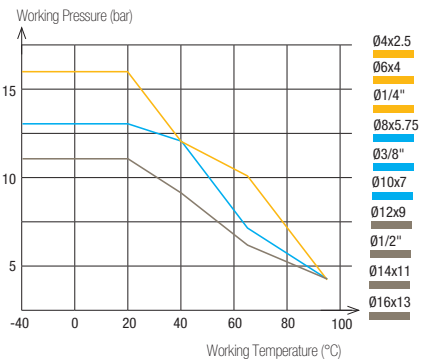
Compatible Fluids	Water, beverages and other fluids
Working Pressure	Vacuum to 16 bar
Working Temperature	-40°C to +95°C
Component Materials	High quality polyethylene: 50% reticulated PE

Regulations

Advanced PE Tubing
FDA: 21 CFR 177.1520
RG: 1935/2004/EC
DI: 97/23/EC (PED)
DI: 2002/95/EC (RoHS), 2011/65/EC
NSF 42/58 (1/4" and 3/8" approved for 10 bar and 1/2" approved for 8 bar at room temperature)
NSF 51, 61 C-HOT
ACS (except for purple colour)
WRAS
RG: 1907/2006 (REACH)
NSF 42/58
KTW
W270

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

Tubing Performance



To calculate burst pressure, the values in these graphs should be multiplied by 3.

Tube O.D.	Tube O.D. Tolerance
1/4" to 1/2"	+0.10 / -0.10
4 to 16 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

Packaging

Advanced PE Tubing
Drum: 150 m, 300 m
250 feet, 500 feet, 1 000 feet

1015Y..F

Advanced Polyethylene (APE) Tubing

Drum 150 m

O.D. (mm)	I.D. (mm)		 Clear						 White	kg
4	2.5	16	1015Y04F00	1015Y04F01	1015Y04F02	1015Y04F03	1015Y04F04	1015Y04F05	1015Y04F10	1.760
6	4	32	1015Y06F00	1015Y06F01	1015Y06F02	1015Y06F03	1015Y06F04	1015Y06F05	1015Y06F10	2.580
8	5.75	40	1015Y08F00	1015Y08F01	1015Y08F02	1015Y08F03	1015Y08F04	1015Y08F05	1015Y08F10	4.050
10	7	40	1015Y10F00	1015Y10F01	1015Y10F02	1015Y10F03	1015Y10F04	1015Y10F05	1015Y10F10	6.200

1030Y..F

Advanced Polyethylene (APE) Tubing

Drum 300 m

O.D. (mm)	I.D. (mm)		 Clear						 White	kg
4	2.5	16	1030Y04F00	1030Y04F01	1030Y04F02	1030Y04F03	1030Y04F04	1030Y04F05	1030Y04F10	2.860
6	4	32	1030Y06F00	1030Y06F01	1030Y06F02	1030Y06F03	1030Y06F04	1030Y06F05	1030Y06F10	4.800

1075Y..F

Advanced Polyethylene (APE) Tubing

Drum 75 m

O.D. (mm)	I.D. (mm)		 Clear						 White	kg
12	9	55	1075Y12F00	1075Y12F01	1075Y12F02	1075Y12F03	1075Y12F04	1075Y12F05	1075Y12F10	5.550
14	11	85	1075Y14F00	1075Y14F01	1075Y14F02	1075Y14F03	1075Y14F04	1075Y14F05	1075Y14F10	5.550
16	13	100	1075Y16F00	1075Y16F01	1075Y16F02	1075Y16F03	1075Y16F04	1075Y16F05	1075Y16F10	5.550

1096Y..F

Advanced Polyethylene (APE) Tubing

Drum 250 ft

O.D. (inch)	I.D. (inch)		 Clear						 White	kg
1/2	0.375	1.96	1096Y62F00	1096Y62F01	1096Y62F02	1096Y62F03	1096Y62F04	1096Y62F05	1096Y62F10	5.900

1098Y..F

Advanced Polyethylene (APE) Tubing

Drum 500 ft

O.D. (inch)	I.D. (inch)		 Clear						 White	kg
1/4	0.170	0.78	1098Y56F00	1098Y56F01	1098Y56F02	1098Y56F03	1098Y56F04	1098Y56F05	1098Y56F10	3.300
3/8	0.250	1.18	1098Y60F00	1098Y60F01	1098Y60F02	1098Y60F03	1098Y60F04	1098Y60F05	1098Y60F10	6.300

1099Y..F

Advanced Polyethylene (APE) Tubing

Drum 1000 ft

O.D. (inch)	I.D. (inch)		 Clear						 White	kg
1/4	0.170	0.78	1099Y56F00	1099Y56F01	1099Y56F02	1099Y56F03	1099Y56F04	1099Y56F05	1099Y56F10	5.500

LIQUIfit® Non-Return Valves

LIQUIfit® non-return valves meet the requirements for conveying **beverages**. They allow flow in one direction and prevent any return flow. Fitted in the circuit, they provide **total protection**.

Product Advantages

Suitable for Beverage Applications

- Fully compatible for use with water, beverages and liquid food-stuffs (liquids and gas)
- Very low cracking threshold
- Excellent chemical compatibility
- Resistant to cleaning products
- Hygienic design with smooth surfaces
- Fluid direction indicated
- EPDM sealing technology



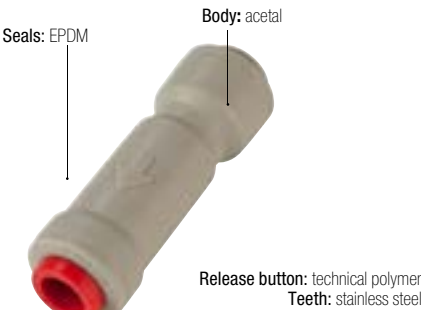
- Water Softeners
- Water Treatment
- Water Purification
- Drinks Dispensers
- Hot & Cold Water Systems

Applications

Technical Characteristics

Compatible Fluids	Water, beverages, liquid foodstuffs
Working Pressure	1 to 10 bar
Working Temperature	1°C to +65°C
Cracking Pressure	0.02 bar up to O.D. 3/8" 0.03 bar for O.D. 1/2"

Component Materials



Silicone-free

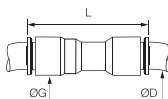
Regulations

- DI: 2002/95/EC (RoHS), 2011/65/EC
- FDA: 21 CFR 177.1550
- NSF 51
- RG: 1907/2006 (REACH)

LIQUIfit® Non-Return Valves

7992 Single Non-Return Valve

Inch

  	Acetal, EPDM 	ØD 		G L kg		
		1/4	7992 56 00WP2	17	51	0.008
		5/16	7992 08 00WP2	17	53	0.010
		3/8	7992 60 00WP2	20	55	0.011
		1/2	7992 62 00WP2	25	68	0.015
		5/16" (8 mm) also available				

LIQUIfit® Ball Valves

This range of valves offers an innovative solution in the treatment of **water and the handling of beverages** while protecting **health**. These **compact and reliable** valves offer perfect **sealing** and excellent **cleanliness**.

Product Advantages

Innovative Technology & Increased Reliability

- Full flow to limit turbulence
- Full-flow self-cleaning ball maintains the cleanliness of the circuit
- Tube retention with gripping ring prevents pumping effect
- Push-in connection and disconnection
- Sealing technology using patented EPDM seal

High Performance

- Inert technical polymer providing the best mechanical strength, thermal and chemical resistance
- Carstick® connection providing resistance to water hammer
- Other configurations available on request



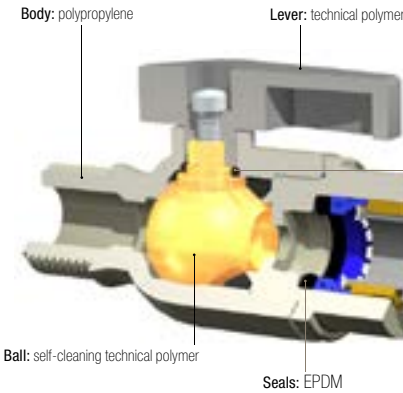
- Beverage Dispensers
- Inert Gases
- Cooling
- Food Process
- Water Purification
- Water Coolers

Applications

Technical Characteristics

Compatible Fluids	Water, drinks, beverages		
	Working Pressure		
	0 to 10 bar at 20°C		
Working Temperature	-15°C to +100°C		
Tightening Torques	Threads	1/4" NPTF	3/8" NPTF
	daN.m	1.5	3

Component Materials



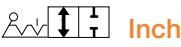
Silicone-free

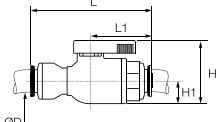
Regulations

- FDA: 21 CFR
- NSF: 61
- WQA: Water Quality Association
- RG: 1907/2006 (REACH)

LIQUIfit® Ball Valves

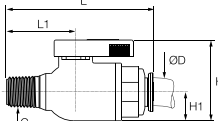
4020 2/2 In-Line Ball Valve



	Polypropylene, glass fibre-reinforced, EPDM 	ØD		H	H1	L	L1	kg
		1/4	4020 56 00WP2	25	13	65	31	0.025
		3/8	4020 60 00WP2	36	13	68	30.5	0.034

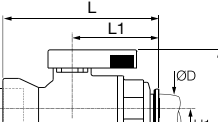
4021 2/2 In-Line Ball Valve, Male NPTF Thread



	Polypropylene, glass fibre-reinforced, EPDM 	ØD	C		H	H1	L	L1	kg
		1/4	NPT1/4	4021 56 14WP2	36	13	61	31	0.024
		3/8	NPT3/8	4021 60 18WP2	36	13	64	33.5	0.028

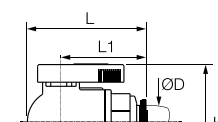
4023 2/2 In-Line Ball Valve, Female NPTF Thread



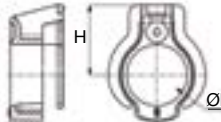
	Polypropylene, glass fibre-reinforced, EPDM 	ØD	C		H	H1	L	L1	kg
		1/4	NPT1/4	4023 56 14WP2	36	13	58	31	0.027
		3/8	NPT3/8	4023 60 18WP2	36	13	64	33.5	0.030

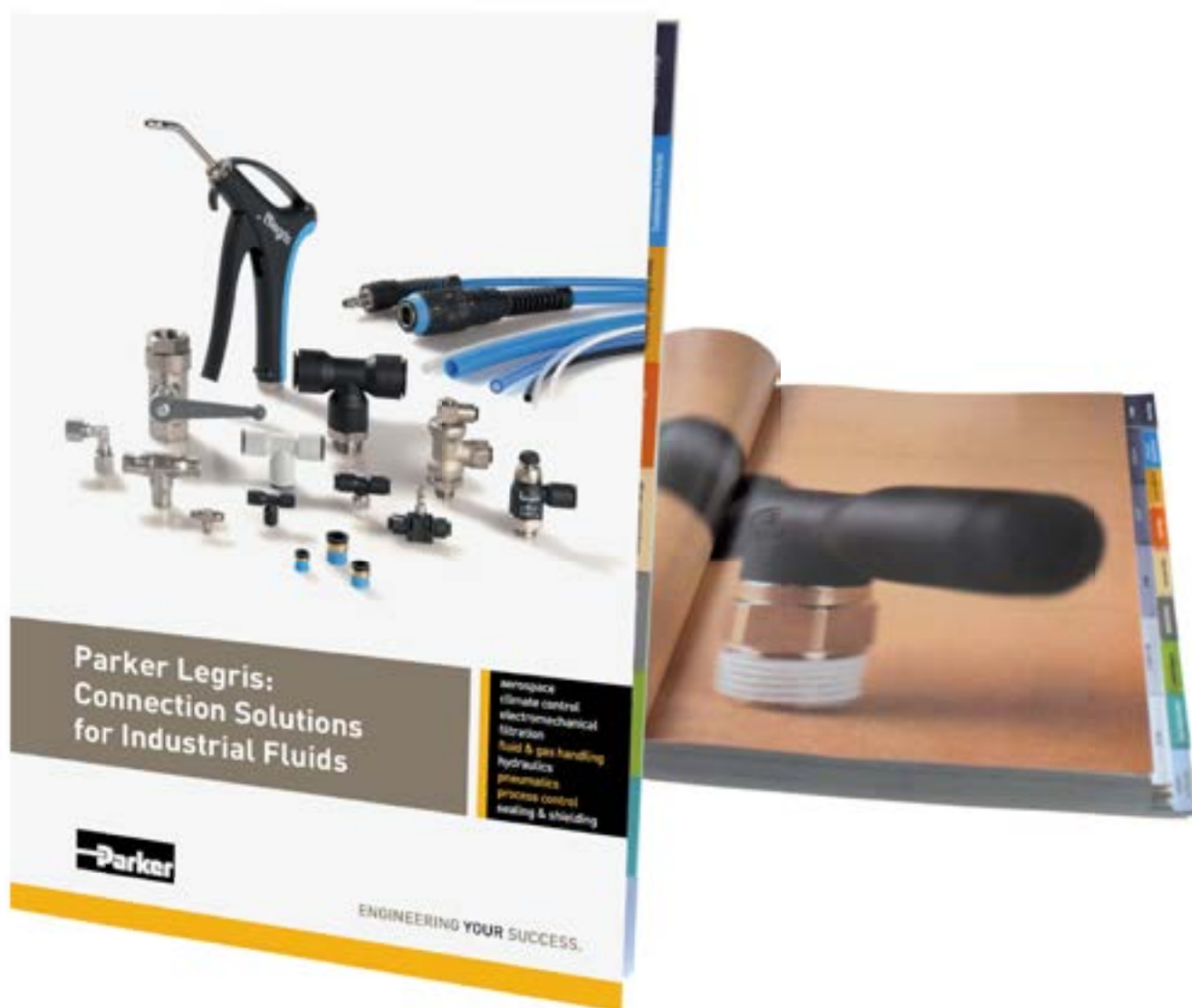
4022 2/2 Right-Angled Ball Valve, Female NPTF Thread



	Polypropylene, glass fibre-reinforced, EPDM 	ØD	C		H	H1	L	L1	kg
		1/4	NPT1/4	4022 56 14WP2	52	29	44	31	0.026
		3/8	NPT3/8	4022 60 18WP2	52	29	47	33.5	0.031

3130 Tamper-Proof Safety Clip

Technical polymer 	ØD							H	K	kg
	1/4	3130 56 01	3130 56 02	3130 56 03	3130 56 04	3130 56 05	3130 56 10	8	3.2	0.001
	3/8	3130 60 01	3130 60 02	3130 60 03	3130 60 04	3130 60 05	3130 60 10	10.8	4.2	0.001



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In this updated edition of the Parker Legris catalogue, we have developed the content, structure and layout to enable you to find the products and information you require as quickly as possible. 31 complementary ranges and more than 1000 additional part numbers have been included, widening the choice of solutions available in order to meet your requirements more effectively. By putting our knowledge and expertise at your fingertips, we strive to provide the day-to-day support you need when designing your industrial equipment.



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Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO₂ controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors



Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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