

LF 3000® Push-In Fittings

The LF 3000® range, with its wide variety of shapes and configurations, allows you to find **the perfect product to meet your needs** and thus **optimise the use** of your equipment.

Product Advantages

World-Class Performance

- 40 years of expertise
- Full bore for optimum flow
- Ideal for vacuum or pressure applications
- Automatic sealing guaranteed, in both static and dynamic applications
- Materials with high resistance
- Durability of product and equipment

Optimal Design

- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Compact and aesthetic design: reduced dimensions for space-saving
- Tube fixed during connection, preventing leakage
- Conforms to ISO 14743
- Excellent vacuum performance thanks to the patented sealing technology
- Lightweight: reduced energy consumption of operating systems
- Parallel threaded fitting with a patented captive O-ring seal
- Maximum flexibility due to the wide product range



- Robotics
- Automotive Process
- Pneumatics
- Semi-Conductors
- Textile
- Packaging
- Vacuum

Applications

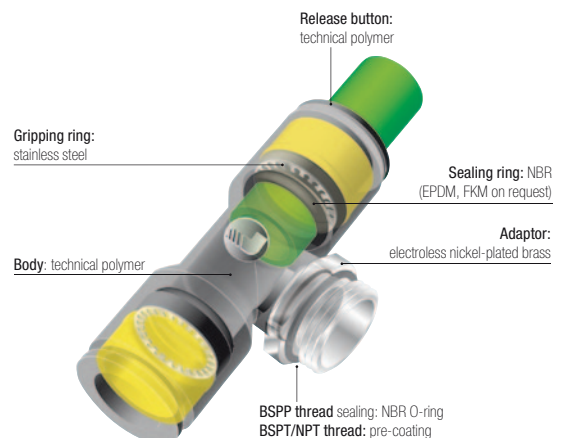
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	Vacuum to 20 bar
Working Temperature	-20°C to +80°C

Tightening Torque (daN.m)	Threads								
	M3 x0.5	M5 x0.8	M7 x1	M10 x1	M12 x1.5	G1/8	G1/4	G3/8	G1/2
	0.06	0.16	0.8	0.8	1.1	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


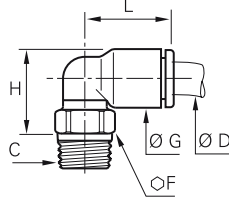
ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
DI: 97/23/EC (PED)

DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 1907/2006 (REACH)

Stud Fittings

3109 Stud Elbow, Male NPT Thread


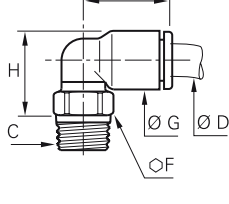
Inch

		Technical polymer, nickel-plated brass, NBR	ØD	C		F	G	H	L	kg
			1/8	NPT1/8	3109 53 11	11	8.5	13.5	14.5	0.007
				NPT1/4	3109 53 14	14	8.5	14	14.5	0.015
				NPT1/8	3109 56 11	11	10.9	17	18	0.007
			1/4	NPT1/4	3109 56 14	14	10.9	16	18	0.014
				NPT3/8	3109 56 18	18	10.9	16.5	18	0.021
				NPT1/8	3109 60 11	15	16	23.1	27.4	0.014
			3/8	NPT1/4	3109 60 14	15	16	23.1	27.4	0.017
				NPT3/8	3109 60 18	18	16	22.1	27.4	0.023
				NPT3/8	3109 62 18	20	22.1	31	35.1	0.041
			1/2	NPT1/2	3109 62 22	24	22.1	28.4	35.1	0.054

Pre-coated thread - 5/32" (4 mm) and 5/16" (8 mm) are also available.
The body swivels for positioning purposes.


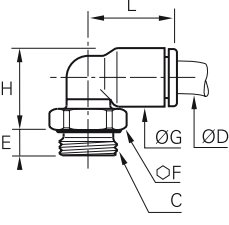
3109 Stud Elbow, Male BSPT Thread

Inch

		Technical polymer, nickel-plated brass, NBR	ØD	C		F	G	H	L	kg
			1/8	R1/8	3109 53 10	10	8.5	13.5	14.5	0.011
				R1/8	3109 55 10	11	10.9	17	21.6	0.010
			3/16	R1/4	3109 55 13	14	8.4	14	14	0.016
				R1/8	3109 56 10	10	10.9	17	18	0.006
			1/4	R1/4	3109 56 13	14	10.9	17	18	0.013
				R1/4	3109 60 13	15	16	22.1	26.4	0.016
			3/8	R3/8	3109 60 17	17	16	22.1	26.4	0.054
				R1/4	3109 62 13	20	22.1	31	35.1	0.064
			1/2	R3/8	3109 62 17	20	22.1	31	35.1	0.067
				R1/2	3109 62 21	24	22.1	28.4	35.1	0.046

Pre-coated thread
The body swivels for positioning purposes.
5/32" (4 mm) and 5/16" (8 mm) are also available.

3199 Stud Elbow, Male BSPP and Metric Thread

		Technical polymer, nickel-plated brass, NBR	ØD	C		E	F	G	H	L	kg
			3	M3x0.5	3199 03 09*	2.5	8	8.5	15	14.5	0.003
				M5x0.8	3199 03 19	3.5	8	8.5	13.5	14.5	0.003
				M3x0.5	3199 04 09*	2.5	8	8.5	15	14.5	0.002
				M5x0.8	3199 04 19	3.5	8	8.5	13.5	14	0.002
			4	M7x1	3199 04 55	4.5	10	8.5	15	14	0.005
				G1/8	3199 04 10	5	13	8.5	13	14	0.006
				G1/4	3199 04 13	5.5	16	8.5	13	14	0.011
				M5x0.8	3199 06 19	3.5	8	10.5	15.5	16	0.003
				M7x1	3199 06 55	4.5	10	10.5	17.5	16	0.006
				M10x1	3199 06 60	5	13	10.5	15	14	0.006
			6	M12x1.5	3199 06 67	5.5	15	10.5	15	16	0.009
				G1/8	3199 06 10	5	13	10.5	15	16	0.006
				G1/4	3199 06 13	5.5	16	10.5	15	16	0.011
				G3/8	3199 06 17	5.5	20	10.5	15.5	16	0.022
				G1/2	3199 06 21	7	24	10.5	16	16	0.027
				M10x1	3199 08 60	5	13	13.5	20.5	23	0.009
				M12x1.5	3199 08 67	5.5	15	13.5	19.5	23	0.009
			8	G1/8	3199 08 10	4.5	13	13.5	20.5	23	0.009
				G1/4	3199 08 13	5.5	16	13.5	18.5	23	0.012
				G3/8	3199 08 17	5.5	20	13.5	18.5	23	0.017
				G1/2	3199 08 21	7	24	13.5	19	23	0.027
				G1/4	3199 10 13	5.5	16	16	23.5	26.5	0.014
			10	G3/8	3199 10 17	5.5	20	16	22	26.5	0.017
				G1/2	3199 10 21	7.5	24	16	22	26.5	0.026
				G1/4	3199 12 13	5.5	16	19	26.5	31	0.016
			12	G3/8	3199 12 17	5.5	20	19	25	31	0.019
				G1/2	3199 12 21	7	24	19	25	31	0.029
				G3/8	3199 14 17	5.5	20	22	32.5	35.5	0.029
			14	G1/2	3199 14 21	7	24	22	27	35.5	0.028
			16	G3/8	3199 16 17	7.5	27	27	54.5	39	0.101
				G1/2	3199 16 21	9	27	27	54.5	39	0.097

The body swivels for positioning purposes.
*Bi-material seal