

# LF 3000® Push-In Fittings / Stud Fittings



A range of technical polymer fittings to cover most needs of low pressure pneumatic applications.

Ø metric: 3 to 16 mm  
Ø inch: 1/8" to 1/2"

## 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.

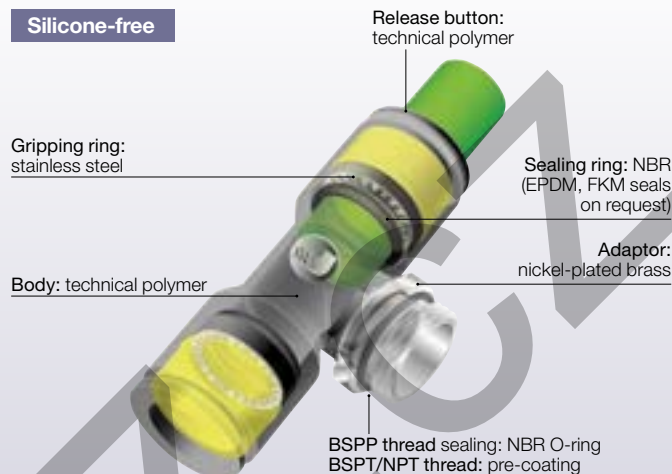
Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

## Advantages

- Robust, lightweight, compact to build your pneumatic circuits
- Full flow connections to optimize flow rates
- Use in vacuum as well as in compressed air
- Customised products upon request. Please, contact us.

## Component Materials

Silicone-free

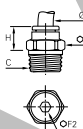


## Regulations

- ISO 14743
- PED
- RoHS
- REACH

## 3175 Stud Fitting, Male BSPT Thread

Nickel-plated brass, NBR

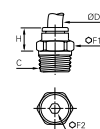


ØD	C		F1	F2	H	Kg
4	R1/8	<b>3175 04 10</b>	10	3	9.5	0.005
	R1/4	<b>3175 04 13</b>	14	3	6.5	0.011
	R3/8	<b>3175 04 17</b>	17	3	8	0.024
6	R1/8	<b>3175 06 10</b>	11	4	11.5	0.005
	R1/4	<b>3175 06 13</b>	14	4	8.5	0.011
	R3/8	<b>3175 06 17</b>	17	4	8.5	0.021
8	R1/2	<b>3175 06 21</b>	21	4	9	0.043
	R1/8	<b>3175 08 10</b>	13	5	20	0.011
	R1/4	<b>3175 08 13</b>	14	6	17	0.014
10	R3/8	<b>3175 08 17</b>	17	6	13	0.021
	R1/2	<b>3175 08 21</b>	21	6	12	0.039
	R1/8	<b>3175 10 10</b>	16	5	22.5	0.017
12	R1/4	<b>3175 10 13</b>	16	7	20	0.017
	R3/8	<b>3175 10 17</b>	17	8	16.5	0.019
	R1/2	<b>3175 10 21</b>	21	8	14	0.036
14	R1/4	<b>3175 12 13</b>	19	7	26.5	0.029
	R3/8	<b>3175 12 17</b>	19	9	24	0.028
	R1/2	<b>3175 12 21</b>	21	10	19.5	0.036
16	R3/8	<b>3175 14 17</b>	22	9	28.5	0.044
	R1/2	<b>3175 14 21</b>	24	10	23.5	0.046
	R3/8	<b>3175 16 17</b>	27	9	32.5	0.068
	R1/2	<b>3175 16 21</b>	27	12	32.5	0.079

Pre-coated thread

## 3175 Stud Fitting, Male NPT Thread

Nickel-plated brass, NBR



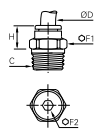
ØD	C		F1	F2	H	Kg
6	NPT1/8	<b>3175 06 11</b>	11	4	11.5	0.006
	NPT1/4	<b>3175 06 14</b>	14	4	8.5	0.012
	NPT1/4	<b>3175 10 14</b>	16	7	20	0.018
10	NPT3/8	<b>3175 10 18</b>	18	8	16.5	0.023
	NPT1/2	<b>3175 10 22</b>	22	8	14	0.038
12	NPT3/8	<b>3175 12 18</b>	19	9	24	0.030
	NPT1/2	<b>3175 12 22</b>	22	10	19.5	0.037

Pre-coated thread  
5/32"(4 mm) and 5/16"(8 mm) are also available.

## 3175 Stud Fitting, Male NPT Thread

Inch

Nickel-plated brass, NBR



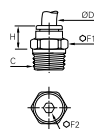
ØD	C		F1	F2	H	Kg
1/8	NPT1/8	<b>3175 53 11</b>	11	2	7.2	0.006
	NPT1/4	<b>3175 53 14</b>	14	2	8	0.015
	NPT1/8	<b>3175 56 11</b>	11	4	11.9	0.007
1/4	NPT1/4	<b>3175 56 14</b>	14	4	9.4	0.013
	NPT3/8	<b>3175 56 18</b>	18	5	7.6	0.024
3/8	NPT1/8	<b>3175 60 11</b>	16	4	22.7	0.019
	NPT1/4	<b>3175 60 14</b>	16	7	20.5	0.019
	NPT3/8	<b>3175 60 18</b>	18	7	17.5	0.026
1/2	NPT3/8	<b>3175 62 18</b>	22	9.5	25.9	0.048
	NPT1/2	<b>3175 62 22</b>	24	9.5	22.1	0.064

Pre-coated thread

## 3175 Stud Fitting, Male BSPT Thread

Inch

Nickel-plated brass, NBR

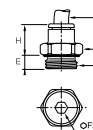


ØD	C		F1	F2	H	Kg
1/8	R1/8	<b>3175 53 10</b>	11	3	8.5	0.005
3/16	R1/8	<b>3175 55 10</b>	11.1	3.2	15.5	0.009
	R1/4	<b>3175 55 13</b>	14.3	4	15	0.020
1/4	R1/8	<b>3175 56 10</b>	11	4	12	0.006
	R1/4	<b>3175 56 13</b>	14	4	9.5	0.021
	R1/4	<b>3175 60 13</b>	16	7	20.5	0.018
3/8	R3/8	<b>3175 60 17</b>	17	7	16.5	0.019
	R1/2	<b>3175 60 21</b>	21	7	14	0.037
	R1/4	<b>3175 62 13</b>	22	6	26.9	0.044
1/2	R3/8	<b>3175 62 17</b>	22	7	25.9	0.048
	R1/2	<b>3175 62 21</b>	24	7	20.5	0.049

Pre-coated thread

## 3101 Stud Fitting, Male BSPP and Metric Thread

Nickel-plated brass, NBR

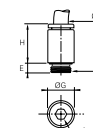


ØD	C		E	F1	F2	H	Kg
3	M3x0.5	<b>3101 03 09*</b>	2.5	8		12.5	0.003
	M5x0.8	<b>3101 03 19</b>	3.5	8	2.5	12.5	0.004
	M3x0.5	<b>3101 04 09*</b>	2.5	8		14.5	0.003
4	M5x0.8	<b>3101 04 19</b>	3	9	2.5	14	0.004
	M7x1	<b>3101 04 55</b>	5	10	2.5	14	0.004
	G1/8	<b>3101 04 10</b>	5	13	3	11.5	0.007
	G1/4	<b>3101 04 13</b>	5.5	16	3	10.5	0.011
	M5x0.8	<b>3101 06 19</b>	3.5	11	2.5	16	0.005
	M7x1	<b>3101 06 55</b>	5	10	3	16	0.006
6	M10x1	<b>3101 06 60</b>	5	13	4	13	0.007
	M12x1.5	<b>3101 06 67</b>	5.5	15	4	13	0.009
	G1/8	<b>3101 06 10</b>	5	13	4	13	0.007
	G1/4	<b>3101 06 13</b>	5.5	16	4	12.5	0.011
	G3/8	<b>3101 06 17</b>	5.5	20	4	13	0.020
	G1/2	<b>3101 06 21</b>	7	24	4	20	0.039
8	M10x1	<b>3101 08 60</b>	5	13	5	21	0.011
	M12x1.5	<b>3101 08 67</b>	5.5	15	5	21	0.015
	G1/8	<b>3101 08 10</b>	4.5	13	5	20.5	0.011
	G1/4	<b>3101 08 13</b>	5.5	16	6	19.5	0.016
	G3/8	<b>3101 08 17</b>	5.5	20	6	18	0.022
	G1/2	<b>3101 08 21</b>	7	24	6	16.5	0.038
10	G1/4	<b>3101 10 13</b>	5.5	16	7	23	0.018
	G3/8	<b>3101 10 17</b>	5.5	20	8	19.5	0.021
	G1/2	<b>3101 10 21</b>	7	24	8	18.5	0.033
12	G1/4	<b>3101 12 13</b>	5.5	19	7	27.5	0.027
	G3/8	<b>3101 12 17</b>	5.5	20	9	27	0.028
	G1/2	<b>3101 12 21</b>	7	24	11	22.5	0.035
14	G3/8	<b>3101 14 17</b>	5.5	22	9	29.5	0.041
	G1/2	<b>3101 14 21</b>	7	24	11	28	0.046
	G3/8	<b>3101 16 17</b>	7.5	27	9	32.5	0.061
16	G1/2	<b>3101 16 21</b>	9	27	12	32.5	0.068

\*Bi-material O ring seal

## 3181 Stud Fitting Round Body, Male Metric Thread

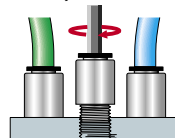
Nickel-plated brass, NBR



ØD	C		E	F	G	H	Kg
4	M5x0.8	<b>3181 04 19</b>	3.5	2.5	8.5	14.5	0.003
	M7x1	<b>3181 04 55</b>	5	3	10	14	0.004
6	M5x0.8	<b>3181 06 19</b>	3.5	2.5	11	16.5	0.005
	M7x1	<b>3181 06 55</b>	5	3	10	16	0.005

The internal hexagon and circular external shape ensure that model 3181 provides highly compact assembly.

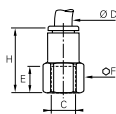
They can be easily installed with an Allen key without the need of a spanner.



# LF 3000® Push-In Fittings / Stud Fittings

## 3114 Stud Fitting, Female BSPP and Metric Thread

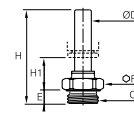
Nickel-plated brass, NBR



ØD	C		E	F	H	Kg
4	M5x0.8	<b>3114 04 19</b>	6.5	8	19.5	0.005
	G1/8	<b>3114 04 10</b>	9.5	13	22.5	0.010
	G1/4	<b>3114 04 13</b>	13.5	16	26.5	0.015
6	G1/8	<b>3114 06 10</b>	9.5	13	24.5	0.011
	G1/4	<b>3114 06 13</b>	13.5	16	28.5	0.016
	G1/8	<b>3114 08 10</b>	9.5	13	29	0.015
8	G1/4	<b>3114 08 13</b>	13.5	16	33	0.021
	G3/8	<b>3114 08 17</b>	14	19	34	0.025
	G1/4	<b>3114 10 13</b>	13.5	16	36	0.028
10	G3/8	<b>3114 10 17</b>	14	19	36	0.027
	G1/2	<b>3114 10 21</b>	19.5	24	41.5	0.047
	G3/8	<b>3114 12 17</b>	14	19	40	0.033
12	G1/2	<b>3114 12 21</b>	19.5	24	45.5	0.052
	G3/8	<b>3114 14 17</b>	14	22	42.5	0.057
16	G1/2	<b>3114 16 21</b>	15	27	49	0.096

## 3131 Stud Standpipe, Male BSPP and Metric Thread

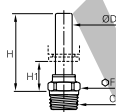
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	H	H1	Kg
4	M5x0.8	<b>3131 04 19</b>	3.5	8	31	16	0.002
	G1/8	<b>3131 04 10</b>	5	13	30	13.5	0.005
	G1/4	<b>3131 04 13</b>	5.5	16	31	13.5	0.010
6	G1/8	<b>3131 06 10</b>	5	13	32	13.5	0.005
	G1/4	<b>3131 06 13</b>	5.5	16	33	13.5	0.010
	G1/8	<b>3131 08 10</b>	5	13	35.5	12.5	0.008
8	G1/4	<b>3131 08 13</b>	5.5	16	34.5	10.5	0.010
	G3/8	<b>3131 08 17</b>	5.5	20	34.5	10.5	0.015
	G1/4	<b>3131 10 13</b>	5.5	16	43.5	17.5	0.012
10	G3/8	<b>3131 10 17</b>	5.5	20	41.5	15.5	0.015
	G1/2	<b>3131 10 21</b>	7	24	41.5	15.5	0.024
	G3/8	<b>3131 12 17</b>	5.5	20	42	12	0.015
12	G1/2	<b>3131 12 21</b>	7	24	43.5	12	0.024
	G3/8	<b>3131 14 17</b>	5.5	20	46.5	14	0.016
14	G1/2	<b>3131 14 21</b>	7	24	48	13.5	0.025

## 3121 Stud Standpipe, Male BSPT Thread

Technical polymer, Nickel-plated brass

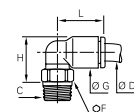


ØD	C		F	H	H1	Kg
4	R1/8	<b>3121 04 10</b>	10	26	14	0.005
	R1/4	<b>3121 04 13</b>	14	26.5	14.5	0.014
6	R1/8	<b>3121 06 10</b>	10	28	14	0.005
	R1/4	<b>3121 06 13</b>	14	28.5	14.5	0.014
8	R1/8	<b>3121 08 10</b>	10	29.5	11	0.005
	R1/4	<b>3121 08 13</b>	14	28.5	10	0.012
10	R1/4	<b>3121 10 13</b>	15	36	15.5	0.012
	R3/8	<b>3121 10 17</b>	17	36	15.5	0.017
	R1/2	<b>3121 10 21</b>	21	36	15.5	0.032
12	R3/8	<b>3121 12 17</b>	17	36.5	12	0.018
	R1/2	<b>3121 12 21</b>	21	36.5	12	0.030

Pre-coated thread

## 3109 Stud Elbow, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

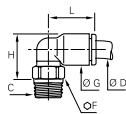


ØD	C		F	G	H	L	Kg
4	R1/8	<b>3109 04 10</b>	10	8.5	13.5	14	0.006
	R1/4	<b>3109 04 13</b>	14	8.5	14	14	0.015
	R3/8	<b>3109 04 17</b>	17	8.5	13.5	14	0.019
6	R1/8	<b>3109 06 10</b>	10	10.5	15.5	16	0.006
	R1/4	<b>3109 06 13</b>	14	10.5	16	16	0.015
	R3/8	<b>3109 06 17</b>	17	10.5	16	16	0.020
8	R1/2	<b>3109 06 21</b>	21	10.5	16.5	16	0.035
	R1/8	<b>3109 08 10</b>	10	13.5	19	23	0.007
	R1/4	<b>3109 08 13</b>	14	13.5	18	23	0.014
10	R3/8	<b>3109 08 17</b>	17	13.5	18	23	0.018
	R1/2	<b>3109 08 21</b>	21	13.5	19.5	23	0.032
	R1/8	<b>3109 10 10</b>	15	16	23	26.5	0.012
12	R1/4	<b>3109 10 13</b>	15	16	22	26.5	0.014
	R3/8	<b>3109 10 17</b>	17	16	22	26.5	0.020
	R1/2	<b>3109 10 21</b>	21	16	22	26.5	0.034
14	R1/4	<b>3109 12 13</b>	15	19	25	31	0.016
	R3/8	<b>3109 12 17</b>	17	19	25	31	0.022
	R1/2	<b>3109 12 21</b>	21	19	25	31	0.037
16	R3/8	<b>3109 14 17</b>	20	22	30.5	35.5	0.031
	R1/2	<b>3109 14 21</b>	24	22	28.5	35.5	0.042
	R3/8	<b>3109 16 17</b>	27	27	53	39	0.106
	R1/2	<b>3109 16 21</b>	27	27	53	39	0.104

Pre-coated thread  
The body swivels for positioning purposes.

## 3109 Stud Elbow, Male NPT Thread

Technical polymer, Nickel-plated brass, NBR



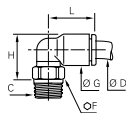
ØD	C		F	G	H	L	Kg
4	NPT1/8	<b>3109 04 11</b>	11	8.4	13.5	14	0.007
	NPT1/4	<b>3109 04 14</b>	14	8.4	14	14	0.016
6	NPT1/8	<b>3109 06 11</b>	11	10.5	15.5	16	0.007
	NPT1/4	<b>3109 06 14</b>	14	10.5	16	16	0.016
8	NPT1/8	<b>3109 08 11</b>	11	13.5	19	23.1	0.009
	NPT1/4	<b>3109 08 14</b>	14	13.5	18	23.1	0.015
10	NPT3/8	<b>3109 10 18</b>	18	16	22	26.5	0.023
	NPT1/2	<b>3109 10 22</b>	22	16	23	26.5	0.046
12	NPT1/2	<b>3109 12 22</b>	22	19	26	31	0.048

Pre-coated thread  
The body swivels for positioning purposes.

## 3109 Stud Elbow, Male NPT Thread

Inch

Technical polymer, Nickel-plated brass, NBR



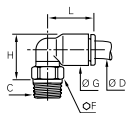
ØD	C		F	G	H	L	Kg
1/8	NPT1/8	<b>3109 53 11</b>	11	8.6	13.5	14.5	0.007
	NPT1/4	<b>3109 53 14</b>	14	8.6	14	14.5	0.015
1/4	NPT1/8	<b>3109 56 11</b>	11	11	17	18	0.008
	NPT1/4	<b>3109 56 14</b>	14	11	16	18	0.014
3/8	NPT3/8	<b>3109 56 18</b>	18	11	16.5	18	0.021
	NPT1/2	<b>3109 60 11</b>	15	16	23.1	27.4	0.014
1/2	NPT3/8	<b>3109 60 14</b>	15	16	23.1	27.4	0.017
	NPT3/8	<b>3109 60 18</b>	18	16	22.1	27.4	0.024
1/2	NPT3/8	<b>3109 62 18</b>	20	22.1	31	35.1	0.033
	NPT1/2	<b>3109 62 22</b>	24	22.1	28.4	35.1	0.045

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

## 3109 Stud Elbow, Male BSPT Thread

Inch

Technical polymer, Nickel-plated brass, NBR

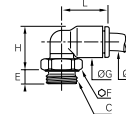


ØD	C		F	G	H	L	Kg
1/8	R1/8	<b>3109 53 10</b>	10	8.6	13.5	14.5	0.011
1/4	R1/8	<b>3109 56 10</b>	10	11	17	18	0.006
	R1/4	<b>3109 56 13</b>	14	11	17	18	0.013
3/8	R1/4	<b>3109 60 13</b>	15	16	22.1	26.4	0.016
	R3/8	<b>3109 60 17</b>	17	16	22.1	26.4	0.054
1/2	R1/4	<b>3109 62 13</b>	20	22.1	31	35.1	0.064
	R3/8	<b>3109 62 17</b>	20	22.1	31	35.1	0.067
	R1/2	<b>3109 62 21</b>	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



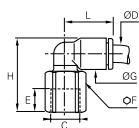
ØD	C		E	F	G	H	L	Kg
3	M3x0.5	<b>3199 03 09*</b>	2.5	8	8.5	15	13	0.003
	M5x0.8	<b>3199 03 19</b>	3	8	8.5	13.5	13	0.003
4	M3x0.5	<b>3199 04 09*</b>	2.5	8	8.5	15	15	0.003
	M5x0.8	<b>3199 04 19</b>	3	8	8.5	13.5	15	0.002
6	M7x1	<b>3199 04 55</b>	4.5	10	8.5	15	14	0.005
	G1/8	<b>3199 04 10</b>	4.5	13	8.5	13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

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

# LF 3000® Push-In Fittings / Stud Fittings

## 3192 Stud Elbow, Female BSPP Thread

Technical polymer, Nickel-plated brass, NBR

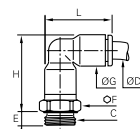


ØD	C		E	F	G	H	L	Kg
4	G1/8	<b>3192 04 10</b>	8.5	13	8.5	23	14	0.010
	G1/4	<b>3192 04 13</b>	11.5	16	8.5	27	14	0.016
6	G1/8	<b>3192 06 10</b>	8.5	13	10.5	25	16	0.010
	G1/4	<b>3192 06 13</b>	11.5	16	10.5	29	16	0.017
8	G1/8	<b>3192 08 10</b>	8.5	13	13.5	28	23	0.012
	G1/4	<b>3192 08 13</b>	11.5	16	13.5	32	23	0.020
10	G3/8	<b>3192 10 17</b>	12	19	16	34.5	26.5	0.025
	G1/2	<b>3192 10 21</b>	16	24	16	41	26.5	0.048
12	G1/4	<b>3192 12 13</b>	11	16	19	38	30.5	0.022
	G3/8	<b>3192 12 17</b>	12	19	19	38.5	30.5	0.027
	G1/2	<b>3192 12 21</b>	16	24	19	43.5	30.5	0.050

The body swivels for positioning purposes.

## 3169 Extended Stud Elbow, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

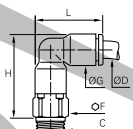


ØD	C		E	F	G	H	L	Kg
4	M5x0.8	<b>3169 04 19</b>	3.5	8	8.5	23	19	0.006
	G1/8	<b>3169 04 10</b>	5	13	8.5	22.5	19	0.008
6	G1/4	<b>3169 04 13</b>	5.5	16	8.5	22.5	19	0.014
	M5x0.8	<b>3169 06 19</b>	3.5	10	10.5	27.5	23	0.008
8	M7x1	<b>3169 06 55</b>	4.5	10	10.5	26	23	0.012
	G1/8	<b>3169 06 10</b>	5	13	10.5	27	23	0.011
10	G1/4	<b>3169 06 13</b>	5.5	16	10.5	27	23	0.016
	G1/8	<b>3169 08 10</b>	5	13	13.5	36	29.5	0.018
12	G1/4	<b>3169 08 13</b>	5.5	16	13.5	33	29.5	0.021
	G3/8	<b>3169 08 17</b>	5.5	20	13.5	33	29.5	0.028
14	G1/4	<b>3169 10 13</b>	5.5	16	16	40.5	34.5	0.028
	G3/8	<b>3169 10 17</b>	5.5	20	16	40.5	34.5	0.036
16	G1/2	<b>3169 10 21</b>	7	24	16	40.5	34.5	0.049
	G1/4	<b>3169 12 13</b>	5.5	19	19	44.5	40.5	0.044
18	G3/8	<b>3169 12 17</b>	5.5	20	19	42	40.5	0.038
	G1/2	<b>3169 12 21</b>	7	24	19	42	40.5	0.043
20	G3/8	<b>3169 14 17</b>	5.5	22	22	51	46.5	0.059
	G1/2	<b>3169 14 21</b>	7	24	22	48.5	46.5	0.063
22	G3/8	<b>3169 16 17</b>	7.5	27	27	82.5	52	0.220
	G1/2	<b>3169 16 21</b>	9	27	27	82.5	52	0.206

The body swivels for positioning purposes.

## 3129 Extended Stud Elbow, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR



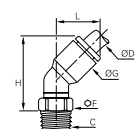
ØD	C		F	G	H	L	Kg
4	R1/8	<b>3129 04 10</b>	10	8.5	23	19	0.008
	R1/4	<b>3129 04 13</b>	14	8.5	23.5	19	0.018
6	R1/8	<b>3129 06 10</b>	10	10.5	27	22.5	0.010
	R1/4	<b>3129 06 13</b>	14	10.5	27.5	22.5	0.020
8	R1/8	<b>3129 08 10</b>	13	13.5	34.5	29.5	0.018
	R1/4	<b>3129 08 13</b>	14	13.5	32.5	29.5	0.022
10	R3/8	<b>3129 08 17</b>	17	13.5	33	29.5	0.032
	R1/4	<b>3129 10 13</b>	15	16	39.5	34.5	0.031
12	R3/8	<b>3129 10 17</b>	17	16	39.5	34.5	0.042
	R1/2	<b>3129 10 21</b>	21	16	39.5	34.5	0.058
14	R1/4	<b>3129 12 13</b>	19	19	45.5	40.5	0.051
	R3/8	<b>3129 12 17</b>	19	19	45.5	40.5	0.047
16	R1/2	<b>3129 12 21</b>	21	19	45.5	40.5	0.053
	R3/8	<b>3129 14 17</b>	21	22	51.5	46.5	0.065
18	R1/2	<b>3129 14 21</b>	21	22	51.5	46.5	0.071

Pre-coated thread

The body swivels for positioning purposes.

## 3113 45° Elbow, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR



ØD	C		F	G	H	L	Kg
4	R1/8	<b>3113 04 10</b>	10	9	21	13	0.006
	R1/8	<b>3113 06 10</b>	10	11	24.5	14.5	0.006
6	R1/4	<b>3113 06 13</b>	14	11	25	14.5	0.015
	R1/8	<b>3113 08 10</b>	10	13.5	30	19.5	0.007
8	R1/4	<b>3113 08 13</b>	14	13.5	28.5	19.5	0.014
	R3/8	<b>3113 08 17</b>	17	13.5	28.5	19.5	0.018
10	R1/4	<b>3113 10 13</b>	15	16	33.5	23	0.014
	R3/8	<b>3113 10 17</b>	17	16	33.5	23	0.020
12	R1/2	<b>3113 10 21</b>	21	16	34	23	0.032
	R1/4	<b>3113 12 13</b>	15	19	39	26	0.016
14	R3/8	<b>3113 12 17</b>	17	19	39	26	0.022
	R1/2	<b>3113 12 21</b>	21	19	39	26	0.034

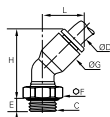
Pre-coated thread

The body swivels for positioning purposes.

This model prevents distortion of the tube.

## 3133 45° Elbow, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

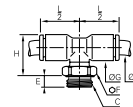


ØD	C		E	F	G	H	L	Kg
4	M5x0.8	<b>3133 04 19</b>	3.5	8	9	23	13	0.003
	G1/8	<b>3133 04 10</b>	4.5	13	9	20.5	13	0.006
6	M5x0.8	<b>3133 06 19</b>	3.5	8	11	28	14.5	0.003
	G1/8	<b>3133 06 10</b>	4.5	13	11	24	14.5	0.006
8	G1/4	<b>3133 06 13</b>	5.5	16	11	24	14.5	0.011
	G1/8	<b>3133 08 10</b>	4.5	13	13.5	31	19.5	0.009
10	G1/4	<b>3133 08 13</b>	5.5	16	13.5	29	19.5	0.012
	G3/8	<b>3133 08 17</b>	5.5	20	13.5	29	19.5	0.017
12	G1/4	<b>3133 10 13</b>	5.5	16	16	35	23	0.014
	G3/8	<b>3133 10 17</b>	5.5	20	16	33.5	23	0.017
14	G1/2	<b>3133 10 21</b>	7	24	16	33.5	23	0.026
	G1/4	<b>3133 12 13</b>	5.5	16	19	40.5	26	0.016
16	G3/8	<b>3133 12 17</b>	5.5	20	19	39	26	0.019
	G1/2	<b>3133 12 21</b>	7	24	19	39	26	0.029

The body swivels for positioning purposes.  
This model prevents distortion of the tube.

## 3198 Stud Branch Tee, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

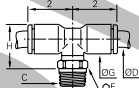


ØD	C		E	F	G	H	L/2	Kg
4	M5x0.8	<b>3198 04 19</b>	3.5	8	8.5	17.5	14	0.003
	G1/8	<b>3198 04 10</b>	5	13	8.5	15	14	0.006
6	G1/4	<b>3198 04 13</b>	5.5	16	8.5	15	14	0.011
	M5x0.8	<b>3198 06 19</b>	3.5	8	10.5	19.5	16	0.004
8	G1/8	<b>3198 06 10</b>	5	13	10.5	17	16	0.007
	G1/4	<b>3198 06 13</b>	5.5	16	10.5	17	16	0.012
10	G1/8	<b>3198 08 10</b>	4.5	13	13.5	23.5	23	0.011
	G1/4	<b>3198 08 13</b>	5.5	16	13.5	21.5	23	0.014
12	G3/8	<b>3198 08 17</b>	5.5	20	13.5	21.5	23	0.019
	G1/4	<b>3198 10 13</b>	5.5	16	16	26	26.5	0.017
14	G3/8	<b>3198 10 17</b>	5.5	20	16	24	26.5	0.020
	G1/2	<b>3198 10 21</b>	7	24	16	24	26.5	0.029
16	G1/4	<b>3198 12 13</b>	5.5	16	19	29	31	0.021
	G3/8	<b>3198 12 17</b>	5.5	20	19	27	31	0.024
18	G1/2	<b>3198 12 21</b>	7	24	19	27	31	0.033
	G3/8	<b>3198 14 17</b>	5.5	20	22	32.5	35.5	0.036
20	G1/2	<b>3198 14 21</b>	7	24	22	27	35.5	0.036
	G3/8	<b>3198 16 17</b>	7.5	27	27	54.5	38.5	0.121
22	G1/2	<b>3198 16 21</b>	9	27	27	54.5	38.5	0.117

The body swivels for positioning purposes.

## 3108 Stud Branch Tee, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

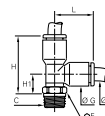


ØD	C		F	G	H	L/2	Kg
4	R1/8	<b>3108 04 10</b>	10	8.5	15.5	14	0.006
	R1/4	<b>3108 04 13</b>	14	8.5	16	14	0.015
6	R1/8	<b>3108 06 10</b>	10	10.5	17.5	16	0.007
	R1/4	<b>3108 06 13</b>	14	10.5	18	16	0.016
8	R1/8	<b>3108 08 10</b>	10	13.5	22	23	0.009
	R1/4	<b>3108 08 13</b>	14	13.5	21	23	0.016
10	R3/8	<b>3108 08 17</b>	17	13.5	21	23	0.020
	R1/4	<b>3108 10 13</b>	15	16	24	26.5	0.017
12	R3/8	<b>3108 10 17</b>	17	16	24	26.5	0.022
	R1/2	<b>3108 10 21</b>	21	16	24	26.5	0.034
14	R1/4	<b>3108 12 13</b>	15	19	27	31	0.021
	R3/8	<b>3108 12 17</b>	17	19	27	31	0.027
16	R1/2	<b>3108 12 21</b>	21	19	27	31	0.041
	R3/8	<b>3108 14 17</b>	20	22	30.5	35	0.038
18	R1/2	<b>3108 14 21</b>	24	22	28.5	35	0.049
	R3/8	<b>3108 16 17</b>	27	27	53	38.5	0.128
20	R1/2	<b>3108 16 21</b>	27	27	53	38.5	0.124

Pre-coated thread  
The body swivels for positioning purposes.

## 3103 Stud Run Tee, BSPT Thread

Technical polymer, Nickel-plated brass, NBR



ØD	C		F	G	H	H1	L	Kg
4	R1/8	<b>3103 04 10</b>	10	8.5	23.5	9	14.5	0.006
	R1/4	<b>3103 04 13</b>	14	8.5	24	9.5	14.5	0.015
6	R1/8	<b>3103 06 10</b>	10	10.5	27.5	10	17.5	0.007
	R1/4	<b>3103 06 13</b>	14	10.5	28	10.5	17.5	0.016
8	R1/8	<b>3103 08 10</b>	10	13.5	35	12	23	0.009
	R1/4	<b>3103 08 13</b>	14	13.5	34	11	23	0.015
10	R3/8	<b>3103 08 17</b>	17	13.5	34	11	23	0.020
	R1/4	<b>3103 10 13</b>	15	16	40.5	14	26.5	0.017
12	R3/8	<b>3103 10 17</b>	17	16	40.5	14	26.5	0.022
	R1/2	<b>3103 10 21</b>	21	16	40.5	14	26.5	0.035
14	R1/4	<b>3103 12 13</b>	15	19	46.5	15.5	31	0.021
	R3/8	<b>3103 12 17</b>	17	19	46.5	15.5	31	0.026
16	R1/2	<b>3103 12 21</b>	21	19	46.5	15.5	31	0.041
	R3/8	<b>3103 14 21</b>	24	22	52.5	17.5	35.5	0.049
18	R3/8	<b>3103 16 17</b>	27	27	78	27	38.5	0.126
	R1/2	<b>3103 16 21</b>	27	27	78	27	38.5	0.124

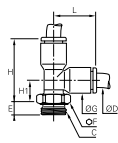
Pre-coated thread  
The body swivels for positioning purposes.



# LF 3000® Push-In Fittings / Stud Fittings

## 3193 Stud Run Tee, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

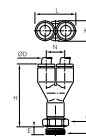


ØD	C		E	F	G	H	H1	L	Kg
4	M5x0.8	<b>3193 04 19</b>	3.5	8	8.5	26	11.5	14.5	0.003
	G1/8	<b>3193 04 10</b>	5	13	8.5	23	8.5	14.5	0.006
	G1/4	<b>3193 04 13</b>	5.5	16	8.5	23	8.5	14.5	0.011
	M5x0.8	<b>3193 06 19</b>	3.5	8	10.5	29.5	12.5	17.5	0.004
6	G1/8	<b>3193 06 10</b>	5	13	10.5	27	10	17.5	0.007
	G1/4	<b>3193 06 13</b>	5.5	16	10.5	27	10	17.5	0.012
	G1/8	<b>3193 08 10</b>	4.5	13	13.5	36.5	14	23	0.011
8	G1/4	<b>3193 08 13</b>	5.5	16	13.5	34.5	12	23	0.014
	G3/8	<b>3193 08 17</b>	5.5	20	13.5	34.5	12	23	0.019
10	G1/4	<b>3193 10 13</b>	5.5	16	16	42	15.5	26.5	0.017
	G3/8	<b>3193 10 17</b>	5.5	20	16	40.5	14	26.5	0.020
	G1/2	<b>3193 10 21</b>	7	24	16	40.5	14	26.5	0.029
	G1/4	<b>3193 12 13</b>	5.5	16	19	48	17	31	0.021
12	G3/8	<b>3193 12 17</b>	5.5	20	19	46.5	15.5	31	0.024
	G1/2	<b>3193 12 21</b>	7	24	19	46.5	15.5	31	0.033
14	G3/8	<b>3193 14 17</b>	5.5	20	22	56.5	21.5	35.5	0.036
	G1/2	<b>3193 14 21</b>	7	24	22	51	16	35.5	0.036
16	G3/8	<b>3193 16 17</b>	7.5	27	27	79.5	41	38.5	0.121
	G1/2	<b>3193 16 21</b>	9	27	27	79.5	41	38.5	0.117

The body swivels for positioning purposes.

## 3158 Y Piece, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

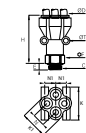


ØD	C		E	F	H	K	L	N	Kg
4	M5x0.8	<b>3158 04 19</b>	3.5	8	32.5	8.5	17.5	9	0.006
	M5x0.8	<b>3158 06 19</b>	3.5	10	39.5	10.5	21.5	11	0.009
6	G1/8	<b>3158 06 10</b>	5	13	39	10.5	21.5	11	0.012
	G1/4	<b>3158 06 13</b>	5.5	16	39.5	10.5	21.5	11	0.017
	G1/8	<b>3158 08 10</b>	5	13	49	13.5	28	14.5	0.020
8	G1/4	<b>3158 08 13</b>	5.5	16	49.5	13.5	28	14.5	0.023
	G3/8	<b>3158 08 17</b>	6	19	48	13.5	28	14.5	0.031
	G1/4	<b>3158 10 13</b>	5.5	16	58	16	33	17	0.032
10	G3/8	<b>3158 10 17</b>	6	20	57.5	16	33	17	0.040
	G1/2	<b>3158 10 21</b>	7	24	58	16	33	17	0.054
12	G3/8	<b>3158 12 17</b>	6	20	62	19	39	20	0.044
	G1/2	<b>3158 12 21</b>	7	24	63	19	39	20	0.050

The body swivels for positioning purposes.

## 3132 Double Y, Male BSPP Thread

Technical polymer, Nickel-plated brass, NBR

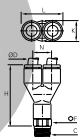


ØD	C		E	F	H	K	K1	N	N1	ØT	Kg
4	G1/8	<b>3132 04 10</b>	5	13	41	25.5	21	10	8.5	3.7	0.022
	G1/4	<b>3132 04 13</b>	5.5	16	40	25.5	21	10	8.5	3.7	0.026
6	G1/8	<b>3132 06 10</b>	5	19	53.5	31.5	26.5	12	10	3.7	0.041
	G1/4	<b>3132 06 13</b>	5.5	19	52.5	31.5	26.5	12	10	3.7	0.042

The body swivels for positioning purposes.

## 3148 Y Piece, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR



ØD	C		F	H	K	L	N	Kg
4	R1/8	<b>3148 04 10</b>	10	32.5	8.5	17.5	9	0.009
	R1/4	<b>3148 04 13</b>	14	33	8.5	17.5	9	0.018
6	R1/8	<b>3148 06 10</b>	10	39.5	10.5	21.5	11	0.012
	R1/4	<b>3148 06 13</b>	14	40	10.5	21.5	11	0.021
8	R1/8	<b>3148 08 10</b>	13	56.5	13.5	28	14.5	0.020
	R1/4	<b>3148 08 13</b>	14	55.5	13.5	28	14.5	0.025
10	R3/8	<b>3148 08 17</b>	16	48.5	13.5	28	14.5	0.034
	R1/4	<b>3148 10 13</b>	14	60	19	39	20	0.033
	R3/8	<b>3148 10 17</b>	16	60.5	19	39	20	0.043
12	R1/2	<b>3148 10 21</b>	24	61	19	39	20	0.062
	R3/8	<b>3148 12 17</b>	19	66	19	39	20	0.054
	R1/2	<b>3148 12 21</b>	21	66	19	39	20	0.059

Pre-coated thread

The body swivels for positioning purposes.