

# 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.

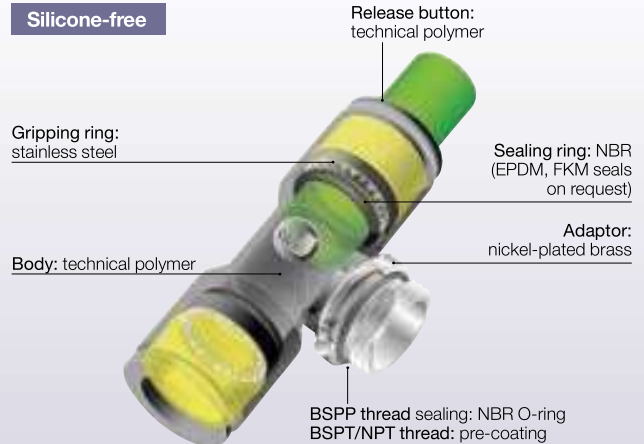
Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

## 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

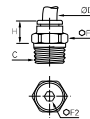


## Regulations

- ISO 14743
- PED
- RoHS
- REACH

## 3175 Stud Fitting, Male BSPT Thread

Nickel-plated brass, NBR

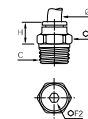


ØD	C	F1	F2	H	Kg
4	R1/8 <b>3175 04 10</b>	10	3	9.5	0.005
	R1/4 <b>3175 04 13</b>	14	3	6.5	0.011
	R3/8 <b>3175 04 17</b>	17	3	8	0.024
6	R1/8 <b>3175 06 10</b>	11	4	11.5	0.005
	R1/4 <b>3175 06 13</b>	14	4	8.5	0.011
	R3/8 <b>3175 06 17</b>	17	4	8.5	0.021
8	R1/2 <b>3175 06 21</b>	21	4	9	0.043
	R1/8 <b>3175 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



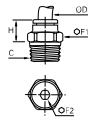
ØD	C	F1	F2	H	Kg
6	NPT1/8 <b>3175 06 11</b>	11	4	11.5	0.006
	NPT1/4 <b>3175 06 14</b>	14	4	8.5	0.012
10	NPT1/4 <b>3175 10 14</b>	16	7	20	0.018
	NPT3/8 <b>3175 10 18</b>	18	8	16.5	0.023
12	NPT1/2 <b>3175 10 22</b>	22	8	14	0.038
	NPT3/8 <b>3175 12 18</b>	19	9	24	0.030
	NPT1/2 <b>3175 12 22</b>	22	10	19.5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



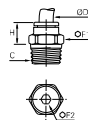
ØD	C		F1	F2	H	Kg
1/8	NPT1/8	<b>3175 53 11</b>	11	2	7.2	0.006
	NPT1/4	<b>3175 53 14</b>	14	2	8	0.015
	NPT1/8	<b>3175 56 11</b>	11	4	11.9	0.007
1/4	NPT1/4	<b>3175 56 14</b>	14	4	9.4	0.013
	NPT3/8	<b>3175 56 18</b>	18	5	7.6	0.024
	NPT1/8	<b>3175 60 11</b>	16	4	22.7	0.019
3/8	NPT1/4	<b>3175 60 14</b>	16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

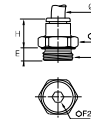


ØD	C		F1	F2	H	Kg
1/8	R1/8	<b>3175 53 10</b>	11	3	8.5	0.005
	R1/8	<b>3175 55 10</b>	11.1	3.2	15.5	0.009
3/16	R1/4	<b>3175 55 13</b>	14.3	4	15	0.020
	R1/8	<b>3175 56 10</b>	11	4	12	0.006
1/4	R1/4	<b>3175 56 13</b>	14	4	9.5	0.021
	R1/4	<b>3175 60 13</b>	16	7	20.5	0.018
	R3/8	<b>3175 60 17</b>	17	7	16.5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

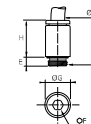


ØD	C		E	F1	F2	H	Kg
3	M3x0.5	<b>3101 03 09*</b>	2.5	8		12.5	0.003
	M5x0.8	<b>3101 03 19</b>	3.5	8	2.5	12.5	0.004
4	M3x0.5	<b>3101 04 09*</b>	2.5	8		14.5	0.003
	M5x0.8	<b>3101 04 19</b>	3	9	2.5	14	0.004
6	M7x1	<b>3101 04 55</b>	5	10	2.5	14	0.004
	G1/8	<b>3101 04 10</b>	5	13	3	11.5	0.007
8	G1/4	<b>3101 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
	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
	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
	10	G1/8	<b>3101 08 10</b>	4.5	13	5	20.5
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
12	G1/2	<b>3101 08 21</b>	7	24	6	16.5	0.038
	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
14	G1/2	<b>3101 10 21</b>	7	24	8	18.5	0.033
	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
16	G1/2	<b>3101 12 21</b>	7	24	11	22.5	0.035
	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
16	G3/8	<b>3101 16 17</b>	7.5	27	9	32.5	0.061
	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

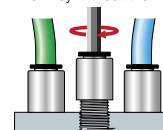
Nickel-plated brass, NBR



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

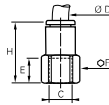
The internal hexagon and circular external shape ensure that model 3181 provides highly compact assembly.

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



## 3114 Stud Fitting, Female BSPP and Metric Thread

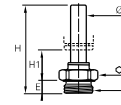
Nickel-plated brass, NBR



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
8	G1/8	<b>3114 08 10</b>	9.5	13	29	0.015
	G1/4	<b>3114 08 13</b>	13.5	16	33	0.021
10	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
	G3/8	<b>3114 10 17</b>	14	19	36	0.027
12	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
14	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

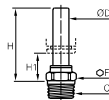
Technical polymer, Nickel-plated brass, NBR



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
8	G1/8	<b>3131 08 10</b>	5	13	35.5	12.5	0.008
	G1/4	<b>3131 08 13</b>	5.5	16	34.5	10.5	0.010
10	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
	G3/8	<b>3131 10 17</b>	5.5	20	41.5	15.5	0.015
12	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
14	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
16	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

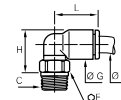


ØD	C		F	H	H1	Kg
4	R1/8	<b>3121 04 10</b>	10	26	14	0.005
	R1/4	<b>3121 04 13</b>	14	26.5	14.5	0.014
6	R1/8	<b>3121 06 10</b>	10	28	14	0.005
	R1/4	<b>3121 06 13</b>	14	28.5	14.5	0.014
8	R1/8	<b>3121 08 10</b>	10	29.5	11	0.005
	R1/4	<b>3121 08 13</b>	14	28.5	10	0.012
10	R1/4	<b>3121 10 13</b>	15	36	15.5	0.012
	R3/8	<b>3121 10 17</b>	17	36	15.5	0.017
12	R1/2	<b>3121 10 21</b>	21	36	15.5	0.032
	R3/8	<b>3121 12 17</b>	17	36.5	12	0.018
16	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

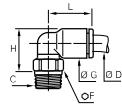


ØD	C		F	G	H	L	Kg
4	R1/8	<b>3109 04 10</b>	10	8.5	13.5	14	0.006
	R1/4	<b>3109 04 13</b>	14	8.5	14	14	0.015
	R3/8	<b>3109 04 17</b>	17	8.5	13.5	14	0.019
6	R1/8	<b>3109 06 10</b>	10	10.5	15.5	16	0.006
	R1/4	<b>3109 06 13</b>	14	10.5	16	16	0.015
	R3/8	<b>3109 06 17</b>	17	10.5	16	16	0.020
8	R1/2	<b>3109 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
16	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



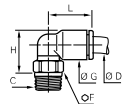
ØD	C		F	G	H	L	Kg
4	NPT1/8	<b>3109 04 11</b>	11	8.4	13.5	14	0.007
	NPT1/4	<b>3109 04 14</b>	14	8.4	14	14	0.016
6	NPT1/8	<b>3109 06 11</b>	11	10.5	15.5	16	0.007
	NPT1/4	<b>3109 06 14</b>	14	10.5	16	16	0.016
8	NPT1/8	<b>3109 08 11</b>	11	13.5	19	23.1	0.009
	NPT1/4	<b>3109 08 14</b>	14	13.5	18	23.1	0.015
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



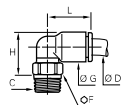
ØD	C		F	G	H	L	Kg
1/8	NPT1/8	<b>3109 53 11</b>	11	8.6	13.5	14.5	0.007
	NPT1/4	<b>3109 53 14</b>	14	8.6	14	14.5	0.015
1/4	NPT1/8	<b>3109 56 11</b>	11	11	17	18	0.008
	NPT1/4	<b>3109 56 14</b>	14	11	16	18	0.014
3/8	NPT3/8	<b>3109 56 18</b>	18	11	16.5	18	0.021
	NPT1/8	<b>3109 60 11</b>	15	16	23.1	27.4	0.014
3/8	NPT1/4	<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

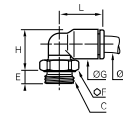


ØD	C		F	G	H	L	Kg
1/8	R1/8	<b>3109 53 10</b>	10	8.6	13.5	14.5	0.011
1/4	R1/8	<b>3109 56 10</b>	10	11	17	18	0.006
	R1/4	<b>3109 56 13</b>	14	11	17	18	0.013
3/8	R1/4	<b>3109 60 13</b>	15	16	22.1	26.4	0.016
	R3/8	<b>3109 60 17</b>	17	16	22.1	26.4	0.054
1/2	R1/4	<b>3109 62 13</b>	20	22.1	31	35.1	0.064
	R3/8	<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	14.5	0.003
	M5x0.8	<b>3199 03 19</b>	3.5	8	8.5	13.5	14.5	0.003
4	M3x0.5	<b>3199 04 09*</b>	2.5	8	8.5	15	14.5	0.003
	M5x0.8	<b>3199 04 19</b>	3.5	8	8.5	13.5	14	0.002
4	M7x1	<b>3199 04 55</b>	4.5	10	8.5	15	14	0.005
	G1/8	<b>3199 04 10</b>	5	13	8.5	13	14	0.006
6	G1/4	<b>3199 04 13</b>	5.5	16	8.5	13	14	0.011
	M5x0.8	<b>3199 06 19</b>	3.5	8	10.5	15.5	16	0.003
6	M7x1	<b>3199 06 55</b>	4.5	10	10.5	17.5	16	0.006
	M10x1	<b>3199 06 60</b>	5	13	10.5	15	14	0.006
6	M12x1.5	<b>3199 06 67</b>	5.5	15	10.5	15	16	0.009
	G1/8	<b>3199 06 10</b>	5	13	10.5	15	16	0.006
6	G1/4	<b>3199 06 13</b>	5.5	16	10.5	15	16	0.011
	G3/8	<b>3199 06 17</b>	5.5	20	10.5	15.5	16	0.022
6	G1/2	<b>3199 06 21</b>	7	24	10.5	16	16	0.027
	M10x1	<b>3199 08 60</b>	5	13	13.5	20.5	23	0.009
6	M12x1.5	<b>3199 08 67</b>	5.5	15	13.5	18	23	0.009
	G1/8	<b>3199 08 10</b>	4.5	13	13.5	20.5	23	0.009
6	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
6	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
6	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
6	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
6	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
6	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
6	G1/2	<b>3199 16 21</b>	9	27	27	54.5	39	0.097

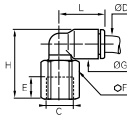
The body swivels for positioning purposes.  
\*Bi-material seal



# LF 3000® Push-In Fittings / Stud Fittings

## 3192 Stud Elbow, Female BSPP Thread

Technical polymer, Nickel-plated brass, NBR

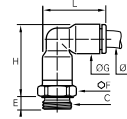


ØD	C		E	F	G	H	L	Kg
4	G1/8	<b>3192 04 10</b>	8.5	13	8.5	23	14	0.010
	G1/4	<b>3192 04 13</b>	11.5	16	8.5	27	14	0.016
6	G1/8	<b>3192 06 10</b>	8.5	13	10.5	25	16	0.010
	G1/4	<b>3192 06 13</b>	11.5	16	10.5	29	16	0.017
8	G1/8	<b>3192 08 10</b>	8.5	13	13.5	28	23	0.012
	G1/4	<b>3192 08 13</b>	11.5	16	13.5	32	23	0.020
10	G3/8	<b>3192 08 17</b>	12	19	13.5	33	23	0.026
	G1/4	<b>3192 10 13</b>	11	16	16	34.5	26.5	0.020
	G3/8	<b>3192 10 17</b>	12	19	16	35	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

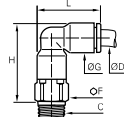


ØD	C		E	F	G	H	L	Kg
4	M5x0.8	<b>3169 04 19</b>	3.5	8	8.5	23	19	0.006
	G1/8	<b>3169 04 10</b>	5	13	8.5	22.5	19	0.008
	G1/4	<b>3169 04 13</b>	5.5	16	8.5	22.5	19	0.014
6	M5x0.8	<b>3169 06 19</b>	3.5	10	10.5	27.5	23	0.008
	M7x1	<b>3169 06 55</b>	4.5	10	10.5	26	23	0.012
	G1/8	<b>3169 06 10</b>	5	13	10.5	27	23	0.011
	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
8	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
	G1/4	<b>3169 10 13</b>	5.5	16	16	40.5	34.5	0.028
10	G3/8	<b>3169 10 17</b>	5.5	20	16	40.5	34.5	0.036
	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
12	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
14	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
16	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

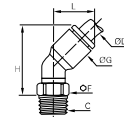


ØD	C		F	G	H	L	Kg
4	R1/8	<b>3129 04 10</b>	10	8.5	23	19	0.008
	R1/4	<b>3129 04 13</b>	14	8.5	23.5	19	0.018
6	R1/8	<b>3129 06 10</b>	10	10.5	27	22.5	0.010
	R1/4	<b>3129 06 13</b>	14	10.5	27.5	22.5	0.020
	R1/8	<b>3129 08 10</b>	13	13.5	34.5	29.5	0.018
8	R1/4	<b>3129 08 13</b>	14	13.5	32.5	29.5	0.022
	R3/8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

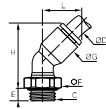


ØD	C		F	G	H	L	Kg
4	R1/8	<b>3113 04 10</b>	10	9	21	13	0.006
	R1/8	<b>3113 06 10</b>	10	11	24.5	14.5	0.006
6	R1/4	<b>3113 06 13</b>	14	11	25	14.5	0.015
	R1/8	<b>3113 08 10</b>	10	13.5	30	19.5	0.007
8	R1/4	<b>3113 08 13</b>	14	13.5	28.5	19.5	0.014
	R3/8	<b>3113 08 17</b>	17	13.5	28.5	19.5	0.018
	R1/4	<b>3113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

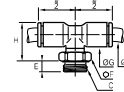


ØD	C		E	F	G	H	L	Kg
4	M5x0.8	<b>3133 04 19</b>	3.5	8	9	23	13	0.003
	G1/8	<b>3133 04 10</b>	4.5	13	9	20.5	13	0.006
6	M5x0.8	<b>3133 06 19</b>	3.5	8	11	28	14.5	0.003
	G1/8	<b>3133 06 10</b>	4.5	13	11	24	14.5	0.006
6	G1/4	<b>3133 06 13</b>	5.5	16	11	24	14.5	0.011
	G1/8	<b>3133 08 10</b>	4.5	13	13.5	31	19.5	0.009
8	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
8	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
10	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
12	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

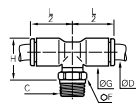


ØD	C		E	F	G	H	L/2	Kg
4	M5x0.8	<b>3198 04 19</b>	3.5	8	8.5	17.5	14	0.003
	G1/8	<b>3198 04 10</b>	5	13	8.5	15	14	0.006
4	G1/4	<b>3198 04 13</b>	5.5	16	8.5	15	14	0.011
	M5x0.8	<b>3198 06 19</b>	3.5	8	10.5	19.5	16	0.004
6	G1/8	<b>3198 06 10</b>	5	13	10.5	17	16	0.007
	G1/4	<b>3198 06 13</b>	5.5	16	10.5	17	16	0.012
8	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
8	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
10	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
12	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
12	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	0.036
14	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
16	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

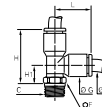


ØD	C		F	G	H	L/2	Kg
4	R1/8	<b>3108 04 10</b>	10	8.5	15.5	14	0.006
	R1/4	<b>3108 04 13</b>	14	8.5	16	14	0.015
6	R1/8	<b>3108 06 10</b>	10	10.5	17.5	16	0.007
	R1/4	<b>3108 06 13</b>	14	10.5	18	16	0.016
8	R1/8	<b>3108 08 10</b>	10	13.5	22	23	0.009
	R1/4	<b>3108 08 13</b>	14	13.5	21	23	0.016
8	R3/8	<b>3108 08 17</b>	17	13.5	21	23	0.020
	R1/4	<b>3108 10 13</b>	15	16	24	26.5	0.017
10	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
12	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
12	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
14	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
16	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

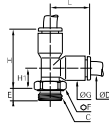


ØD	C		F	G	H	H1	L	Kg
4	R1/8	<b>3103 04 10</b>	10	8.5	23.5	9	14.5	0.006
	R1/4	<b>3103 04 13</b>	14	8.5	24	9.5	14.5	0.015
6	R1/8	<b>3103 06 10</b>	10	10.5	27.5	10	17.5	0.007
	R1/4	<b>3103 06 13</b>	14	10.5	28	10.5	17.5	0.016
8	R1/8	<b>3103 08 10</b>	10	13.5	35	12	23	0.009
	R1/4	<b>3103 08 13</b>	14	13.5	34	11	23	0.015
8	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
10	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
12	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
12	R1/2	<b>3103 12 21</b>	21	19	46.5	15.5	31	0.041
	R1/2	<b>3103 14 21</b>	24	22	52.5	17.5	35.5	0.049
16	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.

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

Technical polymer, Nickel-plated brass, NBR

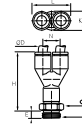


ØD	C		E	F	G	H	H1	L	Kg
4	M5x0.8	<b>3193 04 19</b>	3.5	8	8.5	26	11.5	14.5	0.003
	G1/8	<b>3193 04 10</b>	5	13	8.5	23	8.5	14.5	0.006
	G1/4	<b>3193 04 13</b>	5.5	16	8.5	23	8.5	14.5	0.011
6	M5x0.8	<b>3193 06 19</b>	3.5	8	10.5	29.5	12.5	17.5	0.004
	G1/8	<b>3193 06 10</b>	5	13	10.5	27	10	17.5	0.007
	G1/4	<b>3193 06 13</b>	5.5	16	10.5	27	10	17.5	0.012
8	G1/8	<b>3193 08 10</b>	4.5	13	13.5	36.5	14	23	0.011
	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
12	G1/4	<b>3193 12 13</b>	5.5	16	19	48	17	31	0.021
	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
	G3/8	<b>3193 16 17</b>	7.5	27	27	79.5	41	38.5	0.121
16	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

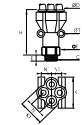


ØD	C		E	F	H	K	L	N	Kg
4	M5x0.8	<b>3158 04 19</b>	3.5	8	32.5	8.5	17.5	9	0.006
	M5x0.8	<b>3158 06 19</b>	3.5	10	39.5	10.5	21.5	11	0.009
6	G1/8	<b>3158 06 10</b>	5	13	39	10.5	21.5	11	0.012
	G1/4	<b>3158 06 13</b>	5.5	16	39.5	10.5	21.5	11	0.017
8	G1/8	<b>3158 08 10</b>	5	13	49	13.5	28	14.5	0.020
	G1/4	<b>3158 08 13</b>	5.5	16	49.5	13.5	28	14.5	0.023
10	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
12	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
16	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

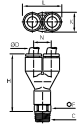


ØD	C		E	F	H	K	K1	N	N1	ØT	Kg
4	G1/8	<b>3132 04 10</b>	5	13	41	25.5	21	10	8.5	3.7	0.022
	G1/4	<b>3132 04 13</b>	5.5	16	40	25.5	21	10	8.5	3.7	0.026
6	G1/8	<b>3132 06 10</b>	5	19	53.5	31.5	26.5	12	10	3.7	0.041
	G1/4	<b>3132 06 13</b>	5.5	19	52.5	31.5	26.5	12	10	3.7	0.042

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
16	R1/2	<b>3148 12 21</b>	21	66	19	39	20	0.059

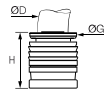
Pre-coated thread

The body swivels for positioning purposes.

# LF 3000® Push-In Fittings / Stud Fittings

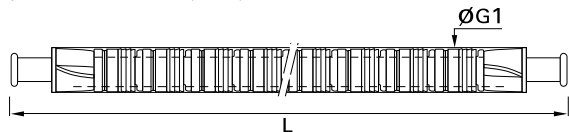
## 3100 Carstick® Cartridge

Brass, NBR



ØD		G	G1	H	L	Kg
4	<b>3100 04 00</b>	8	11	10	554	0.007
6	<b>3100 06 00</b>	10	14.5	11.5	629	0.002
8	<b>3100 08 00</b>	13	15	15	794	0.002
10	<b>3100 10 00</b>	15.5	19.5	17	930	0.005
12	<b>3100 12 00</b>	19.5	21	19.5	1038	0.010
14	<b>3100 14 00</b>	21	24.5	22.5	1110	0.013

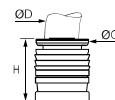
50 cartridges per Carstick®.  
Cavity dimensions are available upon request



## 3100 Carstick® Cartridge

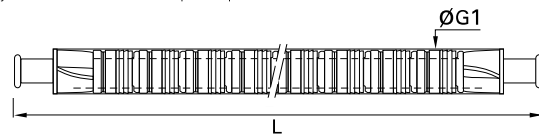
Inch

Nickel-plated brass, NBR

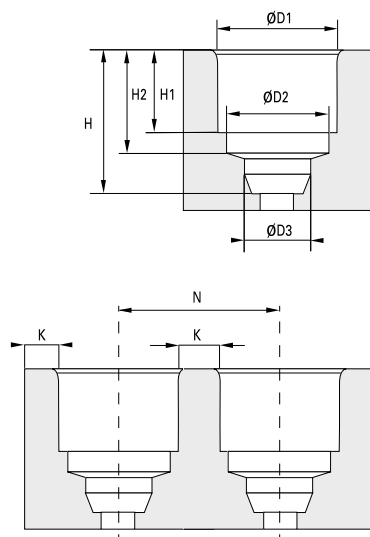


ØD		G	G1	H	L	Kg
1/8	<b>3100 53 00 99</b>	7	10	9	508	0.002
5/32	<b>3100 04 00 99</b>	8	11	10	554	0.007
1/4	<b>3100 56 00 99</b>	10.5	14.5	12	600	0.003
5/16	<b>3100 08 00 99</b>	13	15	15	794	0.002
3/8	<b>3100 60 00 99</b>	15.5	19	16.5	930	0.006

50 cartridges per Carstick®.  
(4 mm) and 5/16" (8 mm) also available.  
Cavity dimensions are available upon request



## Cavity Dimensions



### 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

### Carstick® Inch

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

### 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	15.05	13.1	17.1	2

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

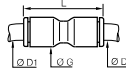
Please consult us for detailed drawings of cavity dimensions and tolerances.

All our dimensions are in millimeters.

# LF 3000® Push-In Fittings / Tube-to-Tube Fittings

## 3106 Equal and Unequal Tube-to-Tube Connector

Technical polymer, NBR

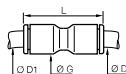


ØD	ØD1		G	L	Kg
3	3	<b>3106 03 00</b>	8.5	25	0.002
	4	<b>3106 03 04</b>	8.5	25	0.002
4	1/4	<b>3106 04 56</b>	11	29.5	0.005
	4	<b>3106 04 00</b>	8.5	25	0.001
	6	<b>3106 04 06</b>	11	28	0.002
	8	<b>3106 04 08</b>	13.5	38	0.005
6	1/4	<b>3106 06 56</b>	13.5	36	0.009
	6	<b>3106 06 00</b>	10.5	28.5	0.002
	8	<b>3106 06 08</b>	13.5	38	0.005
8	10	<b>3106 06 10</b>	16	42	0.008
	8	<b>3106 08 00</b>	13.5	38	0.004
	10	<b>3106 08 10</b>	16	42	0.007
10	12	<b>3106 08 12</b>	19	50.5	0.026
	10	<b>3106 10 00</b>	16	42	0.005
	12	<b>3106 10 12</b>	19	50.5	0.018
12	1/2	<b>3106 12 62</b>	22	56.5	0.041
	12	<b>3106 12 00</b>	19	50.5	0.009
	14	<b>3106 12 14</b>	22	56	0.025
14	16	<b>3106 12 16</b>	27	61	0.066
	14	<b>3106 14 00</b>	22	56	0.014
16	16	<b>3106 16 00</b>	27	60.5	0.041

## 3106 Equal and Unequal Tube-to-Tube Connector

Inch

Technical polymer, NBR

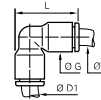


ØD	ØD1		G	L	Kg
1/4	1/4	<b>3106 56 00</b>	11	29.5	0.002
	3/8	<b>3106 60 00</b>	16	42	0.006
3/8	10	<b>3106 60 10</b>	12	50.5	0.028
	1/4	<b>3106 60 56</b>	16	41	0.016
1/2	1/2	<b>3106 62 00</b>	22	55	0.016

5/32"(4 mm) and 5/16"(8 mm) also available

## 3102 Equal and Unequal Elbow

Technical polymer, NBR

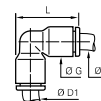


ØD	ØD1		G	L	Kg
4	4	<b>3102 04 00</b>	8.5	19	0.001
	6	<b>3102 04 06</b>	10.5	22.5	0.003
6	6	<b>3102 06 00</b>	10.5	22.5	0.002
	8	<b>3102 06 08</b>	13.5	29.5	0.008
8	8	<b>3102 08 00</b>	13.5	29.5	0.004
	10	<b>3102 08 10</b>	16	34.5	0.011
10	10	<b>3102 10 00</b>	16	34.5	0.006
	12	<b>3102 10 12</b>	19	40.5	0.019
12	12	<b>3102 12 00</b>	19	40.5	0.010
14	14	<b>3102 14 00</b>	22	46.5	0.015
16	16	<b>3102 16 00</b>	27	52	0.043

## 3102 Equal and Unequal Elbow

Inch

Technical polymer, NBR

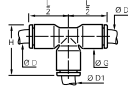


ØD	ØD1		G	L	Kg
1/4	1/4	<b>3102 56 00</b>	11	2.5	0.002
3/8	3/8	<b>3102 60 00</b>	16	34	0.006
1/2	1/2	<b>3102 62 00</b>	22	35	0.017

5/32"(4 mm) and 5/16"(8 mm) also available

## 3104 Equal and Unequal Tee

Technical polymer, NBR

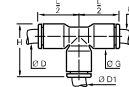


ØD	ØD1		G	H	L/2	Kg
3	3	<b>3104 03 00</b>	8.5	19	14.5	0.004
4	4	<b>3104 04 00</b>	8.5	19	14.5	0.002
	6	<b>3104 04 06</b>	10.5	22.5	17.5	0.007
6	4	<b>3104 06 04</b>	10.5	22.5	17.5	0.005
	6	<b>3104 06 00</b>	10.5	22.5	17.5	0.003
8	8	<b>3104 08 08</b>	13.5	29.5	23	0.015
	4	<b>3104 08 04</b>	13.5	29	17.5	0.013
8	6	<b>3104 08 06</b>	13.5	29.5	23	0.010
	8	<b>3104 08 00</b>	13.5	29.5	23	0.006
10	10	<b>3104 08 10</b>	16	34.5	26.5	0.020
	4	<b>3104 10 04</b>	16	33	26	0.023
10	8	<b>3104 10 08</b>	16	34.5	26.5	0.014
	10	<b>3104 10 00</b>	16	34.5	26.5	0.009
12	12	<b>3104 10 12</b>	19	40.5	31	0.033
	4	<b>3104 12 04</b>	19	39	31	0.040
12	10	<b>3104 12 10</b>	19	40.5	31	0.023
	12	<b>3104 12 00</b>	19	40.5	31	0.014
14	8	<b>3104 14 08</b>	22	46	35.5	0.054
	14	<b>3104 14 00</b>	22	46	35.5	0.022
16	12	<b>3104 16 12</b>	27	52.5	39	0.088
	16	<b>3104 16 00</b>	27	52	39	0.063

## 3104 Equal and Unequal Tee

Inch

Technical polymer, NBR

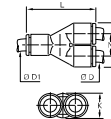


ØD	ØD1		G	H	L/2	Kg
5/32	1/4	<b>3104 04 56</b>	11	23.5	18	0.008
1/8	1/8	<b>3104 53 00</b>	8.4	19	14.5	0.003
	1/4	<b>3104 53 56</b>	11	23.5	18	0.011
3/16	3/16	<b>3104 55 00</b>	11	27.2	21.6	0.016
	5/32	<b>3104 56 04</b>	11	23.5	18.5	0.014
1/4	1/4	<b>3104 56 00</b>	11	23	24	0.003
	3/8	<b>3104 56 53</b>	11	23.5	18.5	0.007
3/8	3/8	<b>3104 56 60</b>	16	33.5	24.5	0.017
	1/4	<b>3104 60 56</b>	16	32.5	25.5	0.019
3/8	3/8	<b>3104 60 00</b>	16	34	26	0.009
	1/2	<b>3104 62 00</b>	22	46	35	0.026
1/2	1/4	<b>3104 62 56</b>	22.1	45.2	35.3	0.059
	3/8	<b>3104 62 60</b>	22	46	35	0.047

5/32"(4 mm) and 5/16"(8 mm) also available

## 3140 Equal and Unequal Single Y Piece

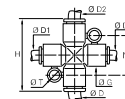
Technical polymer, NBR



ØD	ØD1		H	K	L	N	Kg
4	4	<b>3140 04 00</b>	17.5	8.5	28.5	9	0.002
	6	<b>3140 04 06</b>	17.5	10.5	33	9	0.002
6	6	<b>3140 06 00</b>	21.5	10.5	35	11	0.004
	8	<b>3140 06 08</b>	22.5	13.5	41	11.5	0.005
8	8	<b>3140 08 00</b>	28	13.5	45	14.5	0.006
	10	<b>3140 08 10</b>	28	16	47	14.5	0.008
10	10	<b>3140 10 00</b>	33	16	53	17	0.010
	12	<b>3140 10 12</b>	33	19	57	17	0.012
12	12	<b>3140 12 00</b>	39	19	57	20	0.017

## 3107 Equal and Unequal Cross

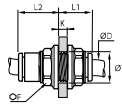
Technical polymer, NBR



ØD	ØD1	ØD2		G	H	N	ØT	Kg
4	4	4	<b>3107 04 00</b>	11	36	20	4.2	0.014
6	4	6	<b>3107 04 06</b>	11	36	20	4.2	0.009
4	4	6	<b>3107 06 04</b>	11	36	20	4.2	0.011
6	6	6	<b>3107 06 00</b>	11	36	20	4.2	0.005
8	6	8	<b>3107 06 08</b>	11	46	22.5	4.2	0.018
6	6	8	<b>3107 08 06</b>	13.5	46	22.5	4.2	0.022
8	8	8	<b>3107 08 00</b>	13.5	46	22.5	4.2	0.009

## 3116 Equal Bulkhead Connector

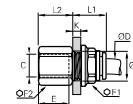
Technical polymer, NBR



ØD		F	K max	L1	L2	ØT min	Kg
4	<b>3116 04 00</b>	13	5.5	15	10	10.5	0.003
6	<b>3116 06 00</b>	15	8	19	11.5	12.5	0.004
8	<b>3116 08 00</b>	18	14.5	25	13.5	15.5	0.007
10	<b>3116 10 00</b>	22	14.5	27.5	15.5	18.5	0.011
12	<b>3116 12 00</b>	26	18.5	33	18	22.5	0.019
14	<b>3116 14 00</b>	29	20.5	37.5	20.5	25.5	0.028

## 3136 Bulkhead Connector, Female BSPP Thread

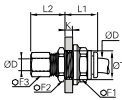
Nickel-plated brass, NBR



ØD	C		E	F1	F2	K max	L1	L2	ØT min	Kg
4	G1/8	<b>3136 04 10</b>	9.5	13	13	7	17	11.5	10.5	0.015
	G1/4	<b>3136 04 13</b>	13.5	13	16	7	17	15.5	10.5	0.021
6	G1/8	<b>3136 06 10</b>	9.5	15	15	8	19	10.5	12.5	0.021
	G1/4	<b>3136 06 13</b>	13.5	15	17	7	19	15.5	12.5	0.027
8	G3/8	<b>3136 06 17</b>	12	15	22	8	19	16	12.5	0.041
	G1/8	<b>3136 08 10</b>	9.5	18	17	8	20.5	10.5	15.5	0.029
10	G1/4	<b>3136 08 13</b>	13.5	18	17	8	20.5	14.5	15.5	0.029
	G3/8	<b>3136 10 17</b>	14	22	22	8.5	23	16	18.5	0.050
12	G3/8	<b>3136 12 17</b>	14	26	24	8.5	27	16	22.5	0.079
	G1/2	<b>3136 12 21</b>	19.5	26	27	8.5	27	21.5	22.5	0.098
16	G3/8	<b>3136 16 17</b>	12	29	29	10.5	30	15	27.5	0.125
	G1/2	<b>3136 16 21</b>	15	29	29	10.5	30	19.5	27.5	0.126

## 3146 Equal Mixed Bulkhead Connector

Nickel-plated brass, NBR

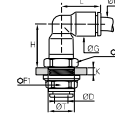


ØD		F1	F2	F3	K max	L1	L2	ØT min	Kg
4	<b>3146 04 00</b>	13	13	10	7	17.5	17.5	10.5	0.018
6	<b>3146 06 00</b>	15	17	13	8	19	18	12.5	0.028
8	<b>3146 08 00</b>	18	19	14	8	20.5	20.5	15.5	0.036
10	<b>3146 10 00</b>	22	22	19	8.5	23	24.5	18.5	0.062
12	<b>3146 12 00</b>	26	25	22	8.5	27	25	22.5	0.095
14	<b>3146 14 00</b>	29	29	24	10.5	27	27	25.5	0.124

Push-in connection with compression fitting

## 3139 Equal Bulkhead Elbow

Technical polymer, Nickel-plated brass, NBR



ØD		F	F1	G	H	K max	L	ØT min	Kg
4	<b>3139 04 00</b>	13	13	8.5	17	6.5	14.5	10.5	0.014
6	<b>3139 06 00</b>	17	15	10.5	19.5	7	17.5	12.5	0.021
8	<b>3139 08 00</b>	19	18	13.5	24	8	23	15.5	0.032
10	<b>3139 10 00</b>	22	22	16	28	8.5	26	18.5	0.048
12	<b>3139 12 00</b>	24	26	19	33	8.5	31	22.5	0.084
14	<b>3139 14 00</b>	27	29	25.5	37.5	10.5	36	25.5	0.117

The body swivels for positioning purposes.

Boxes protect the contents and are designed to meet your requirements:

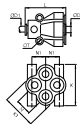
- part numbers and corresponding product pictures allow for immediate visual identification
- bar codes
- easy storage
- tamper-proof system of opening/closing
- recyclable material





## 3144 Equal and Unequal Multiple Y Piece

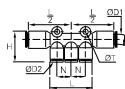
Technical polymer, NBR



ØD	ØD1		K	K1	L	N	N1	ØT	Kg
4	4	<b>3144 04 04</b>	25.5	21	30.5	10	8.5	3.7	0.015
	6	<b>3144 04 06</b>	25.5	21	30.5	10	8.5	3.7	0.013
6	6	<b>3144 06 06</b>	31.5	26.5	37.5	12	10	3.7	0.032
	8	<b>3144 06 08</b>	31.5	26.5	38	12	10	3.7	0.026

## 3304 Multiple Tee

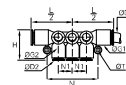
Technical polymer, NBR



ØD1	ØD2		H	L	L/2	N	ØT	Kg
6	4	<b>3304 06 04</b>	24.5	34	37	11.5	4.2	0.015
8	4	<b>3304 08 04</b>	24.5	34	37	11.5	4.2	0.012
	6	<b>3304 08 06</b>	24.5	34	37	11.5	4.2	0.010
10	6	<b>3304 10 06</b>	36	44	40.5	14.5	4.2	0.019
	8	<b>3304 10 08</b>	36	44	40.5	15.5	4.2	0.015

## 3306 90° Multiple Elbow

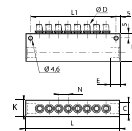
Technical polymer, NBR



ØD1	ØD2		G	G1	H	L/2	N	N1	ØT	Kg
6	4	<b>3306 06 04</b>	13.5	11	18.5	36	43	11.5	4.2	0.034
8	4	<b>3306 08 04</b>	13.5	11	18.5	36.5	43	11.5	4.2	0.025
	6	<b>3306 08 06</b>	13.5	11	18.5	36.5	43	11.5	4.2	0.022
10	6	<b>3306 10 06</b>	16	13.5	23	42	52	14.5	4.2	0.048
	8	<b>3306 10 08</b>	16	13.5	23.5	42	52	14.5	4.2	0.021

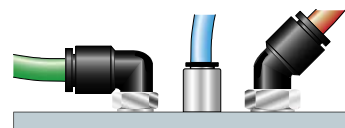
## 3310 In-Line Manifold

Treated aluminium, NBR



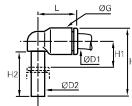
ØD	C		Number of Outlets	E	H	K	L	L1	N	Kg
4	G1/4	<b>3310 04 13</b>	8	10	33	20	114	104	11.5	0.164
6	G1/4	<b>3310 06 13</b>	8	10	33	20	114	104	12.5	0.160
8	G3/8	<b>3310 08 17</b>	6	12	33	20	114	104	15	0.149
10	G1/2	<b>3310 10 21</b>	6	16	48	25	145.5	135.5	17	0.329
12	G1/2	<b>3310 12 21</b>	4	16	45	25	158	148	20.5	0.354

Parker Legris offers the solution to enable many types of configuration options.



## 3182 Equal and Unequal Plug-In Elbow

Technical polymer, NBR

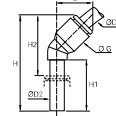


ØD1	ØD2		G	H	H1	H2	L	Kg
4	4	<b>3182 04 00</b>	8.5	23	6	15.5	14	0.005
4	6	<b>3182 04 06</b>	10.5	26.5	7	17	16	0.004
	4	<b>3182 06 04</b>	10.5	24.5	7	15.5	16	0.001
6	6	<b>3182 06 00</b>	10.5	26.5	7	17	16	0.001
	8	<b>3182 06 08</b>	13.5	33.5	8	21.5	23	0.007
	8	<b>3182 08 00</b>	13.5	33.5	8	21.5	23	0.003
8	10	<b>3182 08 10</b>	16	39	10	24.5	26.5	0.010
	10	<b>3182 10 00</b>	16	39	10	24.5	26.5	0.004
10	12	<b>3182 10 12</b>	19	44.5	10.5	27.5	31	0.016
12	12	<b>3182 12 00</b>	19	45.5	10.5	27.5	31	0.007

The references in diameter 4mm and 12mm are not grooved in standard version

## 3180 45° Plug-In Equal Elbow

Technical polymer, NBR

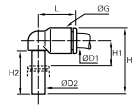


ØD1	ØD2		G	H	H1	H2	L	Kg
4	4	<b>3180 04 00</b>	9	33.5	19	21	13	0.001
6	6	<b>3180 06 00</b>	11	39	21	25	14.5	0.002
8	8	<b>3180 08 00</b>	13.5	44	21.5	25.5	19.5	0.003
10	10	<b>3180 10 00</b>	16	53	27	32.5	23	0.004
12	12	<b>3180 12 00</b>	19	58.5	27.5	34	26.5	0.007

## 3182 Equal Plug-In Elbow

Inch

Technical polymer, NBR

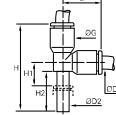


ØD1	ØD2		G	H	H1	H2	L	Kg
1/4	1/4	<b>3182 56 00</b>	11	27.5	7.5	18	18.5	0.002
3/8	3/8	<b>3182 60 00</b>	16	38.5	9	24	26	0.010

5/32"(4 mm) and 5/16"(8 mm) also available

## 3183 Equal and Unequal Plug-In Run Tee

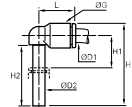
Technical polymer, NBR



ØD1	ØD2		G	H	H1	H2	L	Kg
4	4	<b>3183 04 00</b>	8.5	33	6	15.5	14.5	0.002
	6	<b>3183 04 06</b>	10.5	38.5	7	17	17.5	0.006
6	6	<b>3183 06 00</b>	10.5	38.5	7	17	17	0.002
	8	<b>3183 06 08</b>	13.5	48.5	8	21.5	23	0.014
	8	<b>3183 08 00</b>	13.5	49	8	21.5	23	0.004
8	10	<b>3183 08 10</b>	16	56.5	10.5	24.5	26.5	0.018
	10	<b>3183 10 00</b>	16	57	10.5	24.5	26.5	0.007
10	12	<b>3183 10 12</b>	19	65.5	10.5	27.5	31	0.034
12	12	<b>3183 12 00</b>	19	65.5	10.5	27.5	31	0.011

## 3184 Extended Equal and Unequal Plug-In Elbow

Technical polymer, NBR

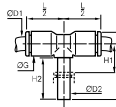


ØD1	ØD2		G	H	H1	H2	L	Kg
4	4	<b>3184 04 00</b>	8.5	32.5	15.5	25	14	0.004
	6	<b>3184 04 06</b>	10.5	38.5	19	29	16	0.004
6	6	<b>3184 06 00</b>	10.5	38.5	19	29	16	0.002
	8	<b>3184 06 08</b>	13.5	49	23.5	37	23	0.007
	8	<b>3184 08 00</b>	13.5	49	23.5	37	23	0.003
8	10	<b>3184 08 10</b>	16	56	26.5	41.5	26.5	0.011
	10	<b>3184 10 00</b>	16	56	26.5	41.5	26.5	0.005
10	12	<b>3184 10 12</b>	19	62.5	28	45.5	31	0.017
12	12	<b>3184 12 00</b>	19	62.5	28	45.5	31	0.008

The references in diameter 4mm and 12mm are not grooved in standard version

## 3188 Equal and Unequal Plug-In Branch Tee

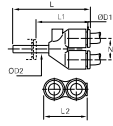
Technical polymer, NBR



ØD1	ØD2		G	H	H1	H2	L/2	Kg
4	4	<b>3188 04 00</b>	8.5	25	8	15.5	14.5	0.001
	6	<b>3188 04 06</b>	10.5	28.5	9	17	16	0.007
6	6	<b>3188 06 00</b>	10.5	28.5	9	17	16	0.002
	8	<b>3188 06 08</b>	13.5	36.5	11	21.5	22	0.014
	8	<b>3188 08 00</b>	13.5	36.5	11	21.5	23	0.004
8	10	<b>3188 08 10</b>	16	41	12.5	24.5	26.5	0.018
	10	<b>3188 10 00</b>	16	41	12.5	24.5	26.5	0.007
10	12	<b>3188 10 12</b>	19	46.5	12.5	27.5	31	0.030
12	12	<b>3188 12 00</b>	19	46.5	12.5	27.5	31	0.012

## 3142 Equal and Unequal Plug-In Single Y Piece

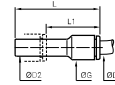
Technical polymer, NBR



ØD1	ØD2		L	L1	L2	N	Kg
4	4	<b>3142 04 00</b>	34	21.5	17.5	9	0.002
	6	<b>3142 04 06</b>	35.5	21.5	17.5	9	0.002
6	6	<b>3142 06 00</b>	39.5	25.5	21.5	11	0.004
	8	<b>3142 06 08</b>	44.5	26	22	11	0.006
8	8	<b>3142 08 00</b>	50.5	32	28	14.5	0.007
	10	<b>3142 08 10</b>	53.5	32	28	14.5	0.022
10	10	<b>3142 10 00</b>	57.5	36	33	17	0.010
	12	<b>3142 10 12</b>	60	35	33	17	0.035
12	12	<b>3142 12 00</b>	66	41	39	20	0.017

## 3166 Plug-In Reducer

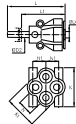
Technical polymer, NBR



ØD1	ØD2		G	L	L1	Kg
3	4	<b>3166 03 04</b>	8.5	37.5	23.5	0.002
	6	<b>3166 04 06</b>	8.5	37.5	23.5	0.001
4	8	<b>3166 04 08</b>	8.5	37.5	19	0.001
	10	<b>3166 04 10</b>	10.5	38	18	0.003
6	8	<b>3166 06 08</b>	10.5	37.5	20	0.001
	10	<b>3166 06 10</b>	10.5	38	17.5	0.002
8	12	<b>3166 06 12</b>	14.5	46	23	0.005
	14	<b>3166 06 14</b>	14.5	48	23	0.007
10	10	<b>3166 08 10</b>	13.5	49	28.5	0.003
	12	<b>3166 08 12</b>	13.5	49	24.5	0.004
12	14	<b>3166 08 14</b>	17	48	23	0.007
	12	<b>3166 10 12</b>	21.5	56.5	33.5	0.005
14	14	<b>3166 10 14</b>	21.5	58.5	33.5	0.005
	12	<b>3166 12 14</b>	23.5	58.5	33.5	0.007

## 3143 Multiple Plug-In Y Piece

Technical polymer, Nickel-plated brass, NBR

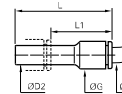


ØD1	ØD2		K	K1	L	L1	N	N1	Kg
4	6	<b>3143 04 06</b>	26	21.5	49.5	35.5	11	8.5	0.018
	8	<b>3143 04 08</b>	26	21.5	51	32	11	8.5	0.021
6	8	<b>3143 06 08</b>	31.5	26.5	57.5	39	12	10	0.035

## 3166 Plug-In Reducer

Inch

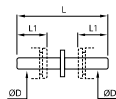
Technical polymer, NBR



ØD1	ØD2		G	L	L1	Kg
1/4	5/16	<b>3166 56 08</b>	11	41	23	0.002
	3/8	<b>3166 56 60</b>	11	41	21	0.002

## 3120 Stem Connector

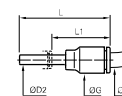
Technical polymer



ØD		L	L1	Kg
4	<b>3120 04 00</b>	34.5	12	0.001
6	<b>3120 06 00</b>	38.5	14	0.001
8	<b>3120 08 00</b>	41	18.5	0.001
10	<b>3120 10 00</b>	51.5	20.5	0.002
12	<b>3120 12 00</b>	60	24.5	0.004
14	<b>3120 14 00</b>	69.5	25.5	0.007

## 3168 Plug-In Increaser

Technical polymer, NBR



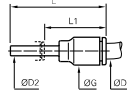
ØD1	ØD2		G	L	L1	Kg
6	4	<b>3168 06 04</b>	10.5	35	23	0.002
	6	<b>3168 08 06</b>	13.5	45	31.5	0.003
8	1/4	<b>3168 08 56</b>	16	40	25.5	0.009
	8	<b>3168 10 08</b>	16	42.5	21	0.004
12	10	<b>3168 12 10</b>	19	49	24.5	0.006

This model exists in nickel-plated brass; please use suffix 85. Example: 3120 06 00 85  
Only compatible with Parker Legris fittings. Drawing available upon request.

## 3168 Plug-In Increaser

Inch

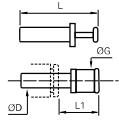
Technical polymer, NBR



ØD1	ØD2		G	L	L1	Kg
1/4	3/16	<b>3168 56 55</b>	20.5	41	25	0.002
	5/32	<b>3168 56 04</b>	11	41	29	0.002

## 3126 Blanking Plug

Technical polymer



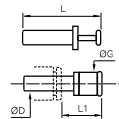
ØD		G	L	L1	Kg
3	<b>3126 03 00</b>	6	25	13.5	0.001
4	<b>3126 04 00</b>	4	30	15.5	0.001
6	<b>3126 06 00</b>	8	33	16.5	0.001
8	<b>3126 08 00</b>	10	35	17.5	0.001
10	<b>3126 10 00</b>	12	42	21	0.002
12	<b>3126 12 00</b>	14	45	22	0.003
14	<b>3126 14 00</b>	16	49	23.5	0.005
16	<b>3126 16 00*</b>	19	57	30	0.064

\*Nickel-plated brass

## 3126 Blanking Plug

Inch

Technical polymer

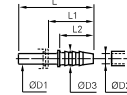


ØD		G	L	L1	Kg
1/4	<b>3126 56 00</b>	8	36.5	22	0.001
3/8	<b>3126 60 00</b>	12	42	22	0.002
1/2	<b>3126 62 00</b>	15	48.5	21.5	0.003

5/32"(4 mm) and 5/16"(8 mm) also available

## 3122 Plug-In Barb Connector

Technical polymer



ØD1	ØD2	ØD3		L	L1	L2	Kg
4	3.2	5	<b>3122 04 53</b>	37	25	17	0.004
	5	7	<b>3122 04 05</b>	37	25	17	0.001
6	5	7	<b>3122 06 05</b>	39	25	17	0.001
8	6.3	8.5	<b>3122 08 56</b>	39.5	21	17	0.001
	8	10	<b>3122 08 08</b>	44.5	26	22	0.001
10	6.3	8	<b>3122 10 56</b>	45	24.5	17	0.002
	8	10	<b>3122 10 08</b>	50	29.5	22	0.002
12	8	10	<b>3122 12 08</b>	50	26	22	0.002
	10	12	<b>3122 12 10</b>	48.5	25.5	22.5	0.002
	12.5	14.5	<b>3122 12 62</b>	57	34	22.5	0.004
14	12.5	14.5	<b>3122 14 62</b>	59.5	34.5	22.5	0.006

## 3151 End Cap

Technical polymer, NBR



ØD		G	H	Kg
4	<b>3151 04 00</b>	8.5	15	0.001
6	<b>3151 06 00</b>	10.5	17	0.001
8	<b>3151 08 00</b>	13.5	22	0.002
10	<b>3151 10 00</b>	16	22	0.003
12	<b>3151 12 00</b>	19	28	0.005
14	<b>3151 14 00</b>	22	31	0.009

# LF 3000® Push-In Fittings / Banjo Fittings



A modular solution designed to orientate the tube according to the application.

Ø metric:  
4 to 12 mm

## 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	G1/8	G1/4	G3/8	G1/2
	0.05	0.1	0.4	0.5	0.6	0.7

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).

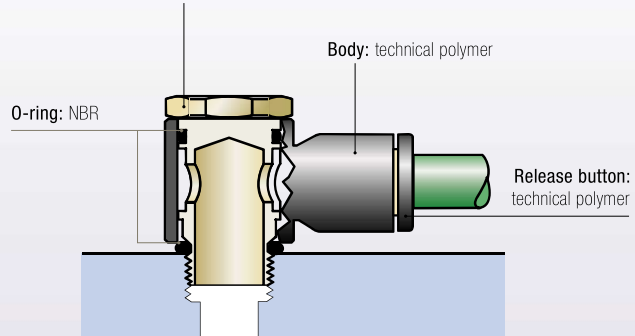
## Advantages

- Screwed from above, for minimum space between connections
- 360° orientable
- Stacking of banjo bodies to allow construction of 2 to 6 outlets

## Component Materials

### Silicone-free

Bolt: nickel-plated brass, with or without pre-coating, depending on the configuration

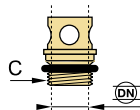


## Regulations

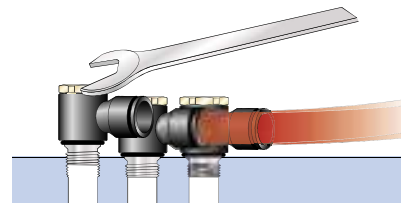
- ISO 14743
- PED
- RoHS
- REACH

## Installation Configurations

Thread and bore diameters for part numbers 3524 - 3527 - 3528 - 3529:

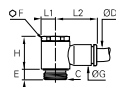


Thread (C)	M5x0.8	G1/8	G1/4	G3/8	G1/2
DN	2.5	5.5	8.5	11	13



## 3118 Single Banjo, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

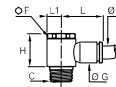


ØD	C		E	F	G	H	L1	L2	Kg
3	M3x0.5	<b>3118 03 09*</b>	3	-	8.5	13	5	16	0.005
	M5x0.8	<b>3118 04 19*</b>	4	-	8.5	13	5	16.5	0.004
4	G1/8	<b>3118 04 10</b>	4	13	8.5	17	7	18.5	0.012
	M5x0.8	<b>3118 06 19*</b>	4	-	10.5	13	7	18.5	0.004
6	G1/8	<b>3118 06 10</b>	4	13	10.5	17	7	20	0.013
	G1/4	<b>3118 06 13</b>	5.5	17	10.5	21	9.5	22	0.023
8	G1/8	<b>3118 08 10</b>	4	13	13.5	16.5	7	25	0.014
	G1/4	<b>3118 08 13</b>	5.5	17	13.5	21	9	27	0.024
8	G3/8	<b>3118 08 17</b>	5.5	20	13.5	24.5	11	29	0.038
	G1/4	<b>3118 10 13</b>	5.5	17	16	21	9.5	29	0.025
10	G3/8	<b>3118 10 17</b>	5.5	20	16	24.5	11	31	0.039
	G1/2	<b>3118 10 21</b>	8	25	19	27.5	13.5	36.5	0.083
12	G3/8	<b>3118 12 17</b>	5.5	20	19	24.5	11	34.5	0.040
	G1/2	<b>3118 12 21</b>	8	25	19	27.5	13.5	36.5	0.075

\*With screwdriver slot

## 3018 Single Banjo, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

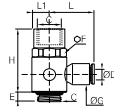


ØD	C		F	G	H	L	L1	Kg
6	R1/8	<b>3018 06 10</b>	13	10.5	18.5	20	7	0.015
	R1/4	<b>3018 06 13</b>	17	10.5	22.5	22	9.5	0.029
8	R1/8	<b>3018 08 10</b>	13	13.5	18.5	25	7	0.016
	R1/4	<b>3018 08 13</b>	17	13.5	22.5	27	9.5	0.030
10	R1/4	<b>3018 10 13</b>	17	16	22.5	29	9.5	0.031
	R3/8	<b>3018 10 17</b>	21	16	26.5	31	11	0.048
12	R1/4	<b>3018 12 13</b>	21	19	26.5	34.5	11	0.052
	R3/8	<b>3018 12 17</b>	21	19	26.5	34.5	11	0.050

Pre-coated thread

## 3124 Single Banjo, Male/Female BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

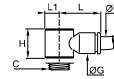


ØD	C		E	F	G	H	L	L1	Kg
4	G1/8	<b>3124 04 10</b>	4	13	8.5	25.5	18.5	7	0.015
6	G1/4	<b>3124 06 13</b>	5.5	17	10.5	33	22	9	0.029
8	G3/8	<b>3124 08 17</b>	5.5	20	13.5	37.5	29	11	0.043

This product family was developed to allow assembly of a function fitting on a cylinder.

## 3538 Single Banjo Bodies

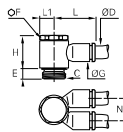
Technical polymer, NBR



ØD	C		G	H	L	L1	Kg
4	M5x0.8	<b>3538 04 19</b>	8.5	13	16	5	0.001
	G1/8	<b>3538 04 10</b>	10.5	14.5	18.5	7	0.002
6	M5x0.8	<b>3538 06 19</b>	11	13	18.5	5	0.002
	G1/8	<b>3538 06 10</b>	10.5	14.5	20	7	0.002
8	G1/4	<b>3538 08 13</b>	13.5	18	22	9.5	0.003
	G1/8	<b>3538 08 10</b>	13.5	14.5	25	7	0.003
10	G1/4	<b>3538 10 13</b>	13.5	18	27	9.5	0.004
	G3/8	<b>3538 10 17</b>	13.5	21.5	29	11.5	0.005
12	G1/4	<b>3538 12 13</b>	16	18	29	9.5	0.005
	G3/8	<b>3538 12 17</b>	16	21.5	31	11.5	0.006
12	G3/8	<b>3538 12 17</b>	19	21.5	34.5	11.5	0.008

## 3149 Twin Banjo, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

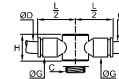


ØD	C		E	F	G	H	L	L1	N	Kg
4	M5x0.8	<b>3149 04 19*</b>	4		8.5	13	16	4.5	9	0.005
	G1/8	<b>3149 04 10</b>	4	13	10.5	16.5	18.5	7	11.5	0.018
6	G1/8	<b>3149 06 10</b>	4	13	10.5	16.5	18.5	7	11.5	0.014
	G1/4	<b>3149 06 13</b>	5.5	17	13.5	21	27	9.5	14.5	0.035
8	G1/4	<b>3149 08 13</b>	5.5	17	13.5	21	27	9.5	14.5	0.026
	G3/8	<b>3149 08 17</b>	5.5	20	16	24.5	31	11	17	0.053
10	G3/8	<b>3149 10 17</b>	5.5	20	16	24.5	31	11	17	0.042

\*With screwdriver slot

## 3539 Double Banjo Bodies

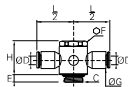
Technical polymer, NBR



ØD	C		G	H	L/2	Kg
6	G1/8	<b>3539 06 10</b>	10.5	14.3	20	0.011
	G1/4	<b>3539 06 13</b>	13.5	18	26	0.015
8	G1/4	<b>3539 08 13</b>	13.5	18	27	0.005
	G3/8	<b>3539 08 17</b>	16	21.5	30.5	0.020
10	G3/8	<b>3539 10 17</b>	16	21.5	31	0.008

## 3119 Double Banjo, BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

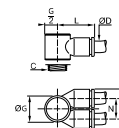


ØD	C		E	F	G	H	L/2	Kg
4	M5x0.8	<b>3119 04 19*</b>	4		8.5	13	8	0.005
6	G1/8	<b>3119 06 10</b>	4	13	11	17	20	0.014
	G1/4	<b>3119 06 13</b>	5.5	17	13.5	21	26.5	0.035
8	G1/4	<b>3119 08 13</b>	5.5	17	13.5	21	27	0.026
	G3/8	<b>3119 08 17</b>	5.5	20	16	24.5	30.5	0.053

\*With screwdriver slot

## 3549 Twin Banjo Bodies

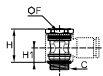
Technical polymer, NBR



ØD	C		G	K	L	N	Kg
4	M5x0.8	<b>3549 04 19</b>	10	17.5	15.5	9	0.003
	G1/4	<b>3549 04 13</b>	18.5	28	25	14.5	0.020
6	G1/8	<b>3549 06 10</b>	14	22.5	20.5	12	0.003
	G1/4	<b>3549 06 13</b>	18.5	28	25	14.5	0.015
8	G3/8	<b>3549 08 17</b>	22.5	33	28.5	17	0.031
	G1/4	<b>3549 08 13</b>	18.5	28	26	14.5	0.006
10	G3/8	<b>3549 08 17</b>	22.5	33	29.5	17	0.020
	G3/8	<b>3549 10 17</b>	22.5	33	29.5	17	0.009

## 3527 Single Banjo Bolts, Male BSPP and Metric Thread

Nickel-plated brass, NBR

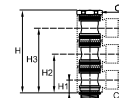


C		F	H	H1	Kg
M5x0.8	<b>3527 00 19*</b>		17	7.5	0.003
G1/8	<b>3527 00 10</b>	13	17	7.5	0.011
G1/4	<b>3527 00 13</b>	17	21	9.5	0.020
G3/8	<b>3527 00 17</b>	20	24.5	11	0.033

\*With screwdriver slot  
Full bore

## 3529 Stacking Banjo for 3 Body High Modules, Male BSPP Thread

Nickel-plated brass, NBR

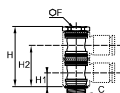


C		F	H	H1	H2	H3	Kg
G1/8	<b>3529 00 10</b>	13	45.5	7.5	22	36	0.023
G1/4	<b>3529 00 13</b>	17	54	9.5	27.5	45.5	0.042
G3/8	<b>3529 00 17</b>	20	67.5	11	32.5	54	0.069

Full bore  
Designed for use with 3 banjo bodies

## 3528 Stacking Banjo for 2 Body High Modules, Male BSPP and Metric Thread

Nickel-plated brass, NBR

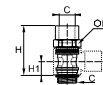


C		F	H	H1	H2	Kg
M5x0.8	<b>3528 00 19*</b>	24.5	7.5	18.5	0.005	
G1/8	<b>3528 00 10</b>	13	31	7.5	22	0.017
G1/4	<b>3528 00 13</b>	17	39	9.5	27.5	0.031
G3/8	<b>3528 00 17</b>	20	46	11	32.5	0.053

\*With screwdriver slot  
Full bore  
Designed for use with 2 banjo bodies

## 3524 Threaded Banjo Bolts, Male/Female BSPP and Metric Thread

Nickel-plated brass, NBR



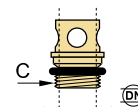
C		F	H	H1	Kg
G1/8	<b>3524 00 10</b>	13	24.5	7.5	0.013
G1/4	<b>3524 00 13</b>	17	33	9.5	0.027
G3/8	<b>3524 00 17</b>	20	37.5	11	0.039
G1/2	<b>3524 00 21</b>	26	42	11.5	0.067

Full bore

Banjo bolts 3527, 3528, 3529 and 3524 are only usable in association with the corresponding bodies for modular construction 3538, 3539 and 3549.

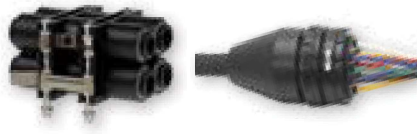
Thread and passage size for part numbers 3527, 3528, 3529 and 3524.

Thread	M5x0.8	G1/8	G1/4	G3/8	G1/2
DN	2.5	5.5	8.5	11	13





# LF 3000® Push-In Fittings / Modular Plug-In Connectors



These connectors secure and facilitate the connection of several circuits by mechanical coding.

Ø metric:  
4 to 8 mm

## Technical Characteristics

- **Compatible Fluids:** Compressed air  
Other fluids: please consult us
- **Working Pressure:** Vacuum to 10 bar
- **Working Temperature:** -20°C to +80°C

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

- 3 types of solutions: in-line, panel-mounted or DIN rail connector
- Minimized connection space
- Prevents incorrect assembly
- Customised multi-connectors upon request

## Component Materials

### Silicone-free

Multi-connectors:

- panel-mounted: zinc-plated steel, technical polymer
- in-line: aluminium, technical polymer
- DIN rail: technical polymer

Connections: LF 3000®

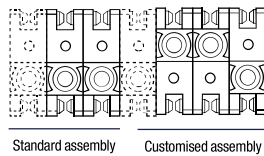


## Regulations

- ISO 14743
- PED
- RoHS
- REACH

## Installations Configurations

### Panel-Mounted



Standard assembly Customised assembly

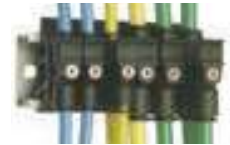
A box contains:

- 10 units
- 20 joining clips and 4 end pins
- 4 mounting brackets
- 4 coupling clips
- 1 dismantling tool

### In-Line



### DIN Rail Connector

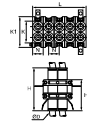


The module is constructed from a number of symmetrical components connected by joining clips. A coupling clip locks the module closed. A dismantling tool allows disconnection.

Maximum 5 modules recommended for the mating module; the fixed module is not limited.

## 3300 Modular Plug-In Connector

Technical polymer, NBR

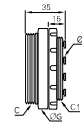


ØD		B	H	H1	K	K1	L	L1	L2	N	Kg
4	<b>3300 04 00</b>	21	40.5	29.5	32	20	55	22	6	11	0.079
6	<b>3300 06 00</b>	28	48	38.5	39	27.5	70	28	7.5	14	0.213
8	<b>3300 08 00</b>	28	50	39	39	27.5	70	28	7.5	14	0.125

Clearance hole for Ø3 mm screw

## 3320 Multi-Connector Male Screw Body

Technical polymer, NBR

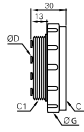



ØD	C	C1		Number of Outlets	G	Kg
4	M46x1.5	M40x1.5	<b>3320 04 00 04</b>	4	50	0.069
	M46x1.5	M40x1.5	<b>3320 04 00 07</b>	7	50	0.071
	M65x1.5	M58x1.5	<b>3320 04 00 12</b>	12	70	0.137
6	M46x1.5	M40x1.5	<b>3320 06 00 04</b>	4	50	0.070
	M46x1.5	M40x1.5	<b>3320 06 00 07</b>	7	50	0.073

The number of male body outlets must correspond to the same number of outlets on the female body.

## 3321 Multi-Connector Female Screw Body

Technical polymer, NBR

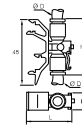



ØD	C	C1		Number of Outlets	G	Kg
4	M46x1.5	M40x1.5	<b>3321 04 00 04</b>	4	55	0.065
	M46x1.5	M40x1.5	<b>3321 04 00 07</b>	7	55	0.063
	M65x1.5	M58x1.5	<b>3321 04 00 12</b>	12	75	0.125
6	M46x1.5	M40x1.5	<b>3321 06 00 04</b>	4	55	0.065
	M46x1.5	M40x1.5	<b>3321 06 00 07</b>	7	55	0.064

The number of female body outlets must correspond to the same number of outlets on the male body.

## 3379 DIN Rail Connector for 2 Tubes

Technical polymer, NBR

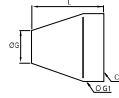



ØD		H	K	L	Kg
4	<b>3379 04 00</b>	34.5	11	39.5	0.010
6	<b>3379 06 00</b>	34.5	11	39.5	0.006
8	<b>3379 08 00</b>	46	13	44.5	0.008

Start pressure test point on the system

## 3329 Multi-Connector Screw Cap

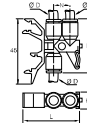
Technical polymer




C		Number of Outlets	G	G1	L	Kg
M40x1.5	<b>3329 00 02</b>	4-7	35	50	55	0.062
M58x1.5	<b>3329 00 03</b>	12	34	70	70	0.139

## 3381 DIN Rail Connector for 3 Tubes

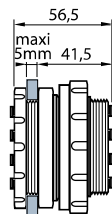
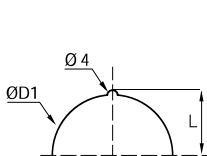
Technical polymer, NBR



ØD		H	K	L	N	Kg
4	<b>3381 04 00</b>	36.5	11	39.5	11.5	0.013
6	<b>3381 06 00</b>	36.5	11	39.5	11.5	0.007
8	<b>3381 08 00</b>	46	13	44.5	14.5	0.033

Start pressure test point on the system

### Overall Dimensions for Bulkhead Mounting



Number of Outlets	L	ØD1
2	17	32.5
4-7	21	40.5
12	30.3	58.5

# LF 3000® Push-In Fittings / Self-Sealing and Oscillating Fittings



2 functions available for quick machine intervention and to facilitate the operation of the installations.

Ø metric:  
4 to 12 mm

## Technical Characteristics

- **Compatible Fluids:** Compressed air  
Other fluids: please consult us
- **Working Pressure:** Vacuum to 20 bar  
(10 bar: self-sealing fitting)
- **Working Temperature:** -20°C to +80°C

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).

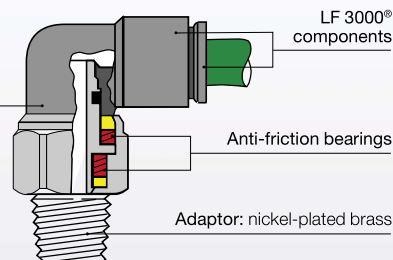
## Advantages

- **Self-Sealing Fittings**
- Prevents fluid flow when there is no tube connected
- When connected, the compressed air flow is restored
- **Oscillating Fittings**
- Fitting swivels when cylinder is in movement : no bending of the tube
- High durability of the fitting/tube assembly

## Component Materials

### Swivel Fitting

- Body:
- Self-sealing fitting: nickel-plated brass
  - Oscillating fitting: technical polymer



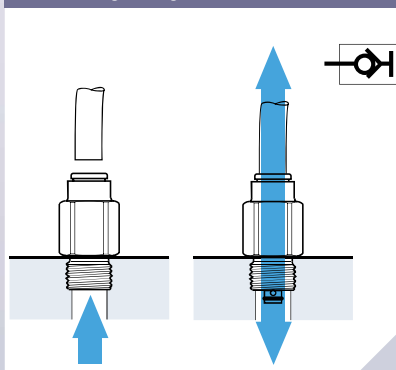
Silicone-free

## Regulations

- ISO 14743
- PED
- RoHS
- REACH

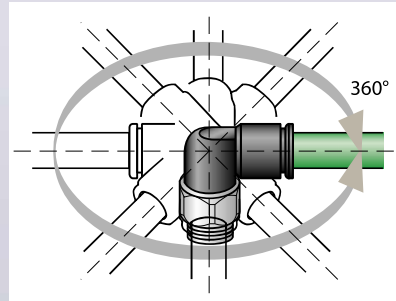
## Installation Configurations

### Self-Sealing Fitting



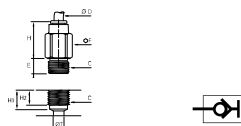
### Oscillating Fitting

Tube O.D. (mm)	Torque (daN.m)	Max. Rotation Speed (turn/min.)
4	<2.5.10 <sup>-3</sup>	190
6	<4.10 <sup>-3</sup>	160
8	<7.10 <sup>-3</sup>	120
10	<11.10 <sup>-3</sup>	90
12	<16.10 <sup>-3</sup>	80



## 3391 Self-Sealing Stud Fitting, Male BSPP Thread

Nickel-plated brass, NBR

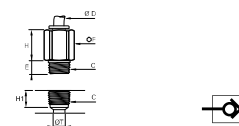


ØD	C		E	F	H	H1	H2	ØT	Kg
4	G1/8	<b>3391 04 10</b>	5	13	18	7.5	6	5	0.017
6	G1/8	<b>3391 06 10</b>	5	14	19.5	9	6	7.5	0.018
8	G1/8	<b>3391 08 10</b>	5	14	29.5	10	6	7.5	0.025
	G1/4	<b>3391 08 13</b>	5.5	16	25.5	11	8	9	0.032
10	G3/8	<b>3391 10 17</b>	5.5	20	27.5	13	11	10	0.055

Maximum working pressure: 10 bar

## 3091 Self-Sealing Stud Fitting, Male BSPT Thread

Nickel-plated brass, NBR

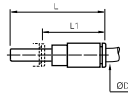


ØD	C		E	F	H	H1	ØT	Kg
4	R1/8	<b>3091 04 10</b>	7.5	12	18	9.5	5	0.014
6	R1/8	<b>3091 06 10</b>	7.5	13	19.5	9.5	7.5	0.015
8	R1/8	<b>3091 08 10</b>	6.5	14	25	10.5	7.5	0.024
	R1/4	<b>3091 08 13</b>	11	14	25.5	13.5	9	0.021

Maximum working pressure: 10 bar

## 3160 Self-Sealing Plug-In Fitting

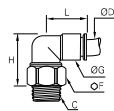
Technical polymer, NBR



ØD		L	L1	Kg
4	<b>3160 04 00</b>	46	33.5	0.006
6	<b>3160 06 00</b>	53.5	31	0.009
8	<b>3160 08 00</b>	58	31	0.014

## 3159 Oscillating Elbow, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

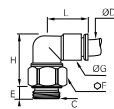


ØD	C		F	G	H	L	Kg
4	R1/8	<b>3159 04 10</b>	12	11	22	17.5	0.013
6	R1/8	<b>3159 06 10</b>	14	14	26.5	20.5	0.020
	R1/4	<b>3159 06 13</b>	14	14	23.5	20.5	0.022
8	R1/8	<b>3159 08 10</b>	17	16	32	23.5	0.034
	R1/4	<b>3159 08 13</b>	17	16	29	23.5	0.034
	R3/8	<b>3159 08 17</b>	17	16	25	23.5	0.031
10	R1/4	<b>3159 10 13</b>	19	19.5	37.5	29	0.051
	R3/8	<b>3159 10 17</b>	19	19.5	33.5	29	0.046
12	R1/4	<b>3159 12 13</b>	21	22	44.5	33.5	0.074
	R3/8	<b>3159 12 17</b>	21	22	41	33.5	0.068

Pre-coated thread

## 3189 Oscillating Elbow, Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	G	H	L	Kg
4	M5x0.8	<b>3189 04 19</b>	3	12	11	24.5	17.5	0.012
	G1/8	<b>3189 04 10</b>	5	13	11	23	17.5	0.014
6	M5x0.8	<b>3189 06 19</b>	3	12	14	27.5	20.5	0.017
	G1/8	<b>3189 06 10</b>	5	14	14	27	20.5	0.019
	G1/4	<b>3189 06 13</b>	5.5	16	14	25.5	20.5	0.023
8	G1/8	<b>3189 08 10</b>	5	17	16	33.5	23.5	0.034
	G1/4	<b>3189 08 13</b>	5.5	17	16	31	23.5	0.032
	G3/8	<b>3189 08 17</b>	5.5	20	16	29.5	23.5	0.039
10	G1/4	<b>3189 10 13</b>	5.5	19	19.5	39	29	0.053
	G3/8	<b>3189 10 17</b>	5.5	20	19.5	37	29	0.051
12	G1/4	<b>3189 12 13</b>	5.5	21	22	46.5	33.5	0.073
	G3/8	<b>3189 12 17</b>	5.5	21	22	45.5	33.5	0.071