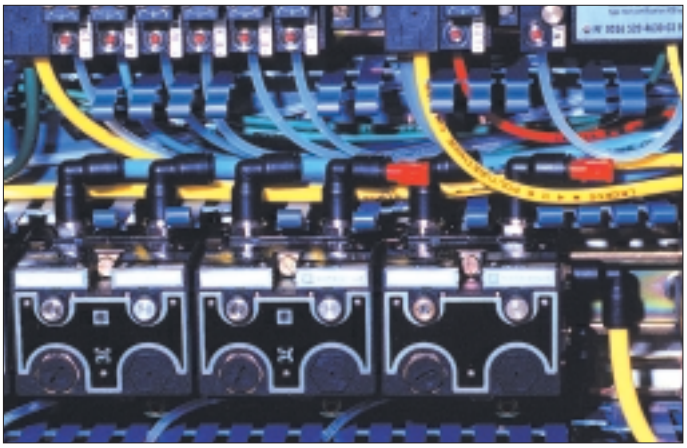
push-to-connect fittings
system LF3000

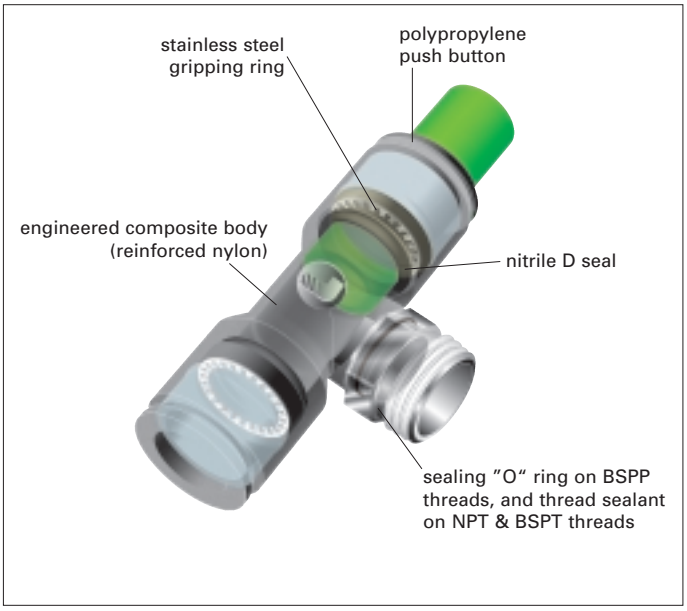
legris
connectic

principle of system LF3000®



technical specifications

Reliable performance is dependent upon the tube being used, ambient temperature and fluid conveyed together with the component materials of the fitting.



All items in the LF3000® range are guaranteed SILICONE FREE

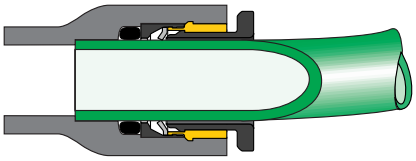
Invented and launched by **Legris** in 1969, the **LF3000® system** has become universally adopted. It has been designed using a simple and widely proven operating principle which allows instant connection. The **connection** of tube to fitting is made by simply pushing the tube into the fitting, no other operation is required. **Disconnection** is similarly **"instantaneous"**. Attentive to market needs, **Legris** has taken into account the requirements of its customers, i.e. optimization of performance, miniaturization, and appearance.In order to be utilized to its maximum capability, the **LF3000® system** is available in 3 ranges:
- for fractional **inch tubes** with **NPT threads**.
- for fractional **inch tubes** with **BSP threads in taper form**.
- for **metric tubes** with **BSP threads in taper, parallel or metric form.**

Millions of fittings are in service throughout the world.

Designed for pneumatic installations, the **LF3000® system** is therefore an essential component in a wide variety of industries.

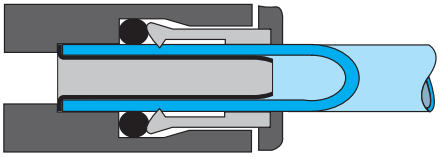
suitable fluids	compressed air							
working pressure	290 psi maximum for **LF3000® gripping ring** (260 psi maximum for LF3000® collet technology) Maximum circuit pressure depends equally on the type and diameter of the tube used. See Chapter on **Legris** tubing. *For use on very low pressures, please consult us.*							
working temperature	-40°F to +175°F, **LF3000® gripping ring** (-40°F to 155°F, LF3000® collet technology) The fitting's suitability depends equally on the type and OD of the tube used. *For temperatures above 175°F, please consult us.*							
vacuum capability	vacuum of 28" Hg (99% vacuum)							
materials of construction	**body:** glass reinforced nylon 6.6 **collar:** nylon **gripping ring:** stainless steel **D seal:** nitrile **"O" rings:** nitrile **base:** nickel-plated brass with thread sealant on tapered components and captive seal on parallel threads **collet:** brass (found only in collet technology fittings)							
maximum tightening torque for LF3000® fittings:	NPT & BSPT taper thread	10/32	1/8"	1/4"	3/8"	1/2"		
	in. lb	13	70	100	250	308		
	parallel thread	M3 x0.5	M5 x0.8	M7 x1	G1/8"	G1/4"	G3/8"	G1/2"
	in. lb	5	14	70	70	100	266	300

gripping ring technology



1/8", 5/32", 1/4", 5/16", 3/8", 1/2",
4mm, 6mm, 8mm, 10mm, 12mm, 14mm

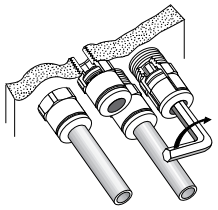
collet technology



3/16"

performance and reliability

- **full flow:** as gripping and sealing within the fitting is achieved using the outside of the tube without deformation, there is no flow restriction. Smallest orifice inside the fitting is = or > than the ID of the tube.
- **automatic sealing:** the D seal within the fitting provides a positive seal on the O.D. of the tube, in both static and dynamic positions, due to an **optimized design** of the fitting cavity.
- **internal hex:** allows ease of assembly in tight places.



immediate seal of threads

- for **tapered threaded fittings,** due to pre-applied teflon thread sealant.
- for **parallel threaded fittings,** due to a patented built in captive **"O" ring** seal.

Our production process includes individual unit quality control and dating, for all LF3000® push-to-connect fittings, in order to guarantee their quality and traceability.

one of the most extensive ranges on the market

- **a solution for all applications:** wide variety of body designs and numerous configurations, from 1/8" to 1/2" and 3mm to 14mm diameters.
- **types of thread:** NPT, BSP taper, BSP parallel and metric.
- **special items** on request.

compact and aesthetic

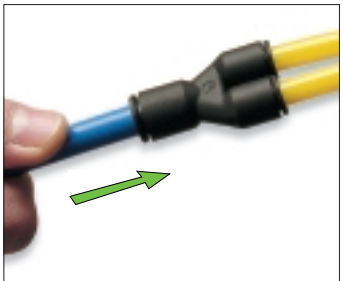
- optimized dimensions and new body designs, to satisfy the **ergonomics** and **aesthetics of pneumatic installations.**

orientable at base

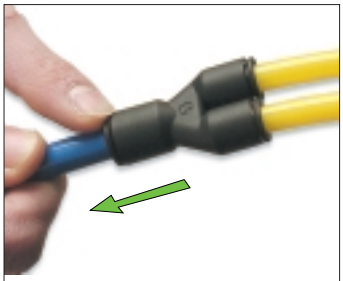
- ease of assembly
- no over/under torquing

lightweight

- a feature introduced for improved performance, mobility and productivity.



Simply push the tubing until it can go no further. Holding and sealing is accomplished instantaneously.



First depress the manual release button, then pull the tubing out of the fitting.

instant connection and disconnection

- **instant** connection and disconnection without the use of tools.
- time saving
- 1 piece fitting
- reusable
- **release caps:** available in 6 colors, to **identify** different circuits. Fittings come standard with a black push button.

the complete range of LF3000® push-to-connect fittings

threaded fittings

3175 taper
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3171 UNF/taper
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3181 metric
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3101 metric/parallel
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3109 taper
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3199 metric/parallel
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3129 taper
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3169 UNF/parallel
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3113 taper
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3133 UNF/parallel
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3008 taper
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3198 metric/parallel
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3103 taper/UNF
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3193 parallel
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3121 taper
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3131 UNF/parallel
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3148 taper
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3158 parallel
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3112 taper
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3132 parallel
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3009 taper
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3014 taper
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3118 UNF/parallel
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the complete range of LF3000® push-to-connect fittings

manifolds

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3mm tube to tube fittings

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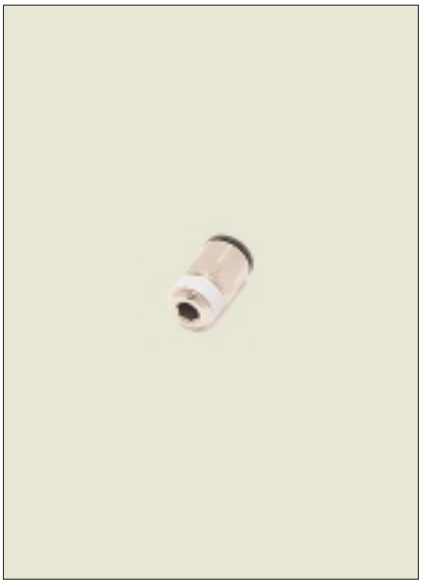
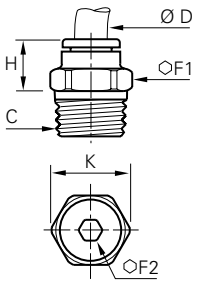
The LF3000® system can be used for:

- **inch tubes,** from 1/8 to 1/2
  – NPT, UNF, and BSP taper threads
- **metric tubes,** from 3 mm to 14 mm
  – BSP taper, BSP parallel, and metric threads

3175 male connector — fractional inch tube to male NPT



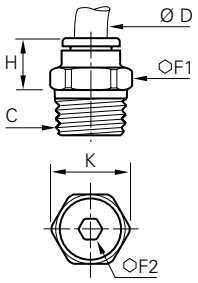
nickel-plated brass
pre-applied thread sealant



ØD in	C NPT		F1 mm	F2 in	H in	K in	oz
1/8	1/16	3175 53 08	10	.07	.413	.433	.24
1/8	1/8	3175 53 11	11	.07	.283	.472	.25
1/8	1/4	3175 53 14	14	.07	.315	.591	.59
5/32	1/8	3175 04 11	11	7/64	.334	.472	.26
5/32	1/4	3175 04 14	14	7/64	.275	.590	.56
3/16	1/8	3175 55 11	7/16"	1/8	.61	.51	.49
3/16	1/4	3175 55 14	9/16"	5/32	.59	.65	.97
1/4	1/8	3175 56 11	11	5/32	.472	.472	.26
1/4	1/4	3175 56 14	14	5/32	.374	.590	.50
1/4	3/8	3175 56 18	18	3/16	.295	.767	.88
5/16	1/8	3175 08 11	13	3/16	.787	.551	.45
5/16	1/4	3175 08 14	14	1/4	.661	.590	.58
5/16	3/8	3175 08 18	18	1/4	.464	.767	.89
3/8	1/8	3175 60 11	16	5/32	.894	.689	.79
3/8	1/4	3175 60 14	16	9/32	.807	.689	.73
3/8	3/8	3175 60 18	18	9/32	.689	.767	.97
3/8	1/2	3175 60 22	22	9/32	.610	.945	2.00
1/2	1/4	3175 62 14	22	1/4	1.1	.945	1.62
1/2	3/8	3175 62 18	22	9/32	1.1	.945	.89
1/2	1/2	3175 62 22	22	9/32	1.1	.945	2.51

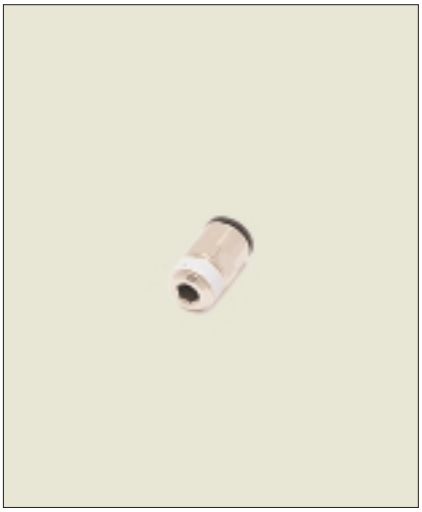
3175 male connector — metric tube to male BSPT

nickel-plated brass
pre-applied thread sealant

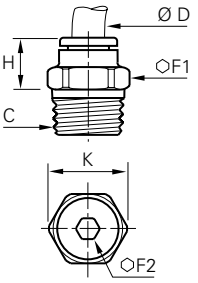


ØD mm	C BSPT		F1 mm	F2 mm	H mm	K mm	kg
4	R1/8	3175 04 10	10	3	9.5	11	.006
4	R1/4	3175 04 13	14	3	6.5	15	.013
4	R3/8	3175 04 17	17	3	8	18.5	.024
6	R1/8	3175 06 10	11	4	11.5	11	.005
6	R1/4	3175 06 13	14	4	8.5	15	.011
6	R3/8	3175 06 17	17	4	8.5	18.5	.014
6	R1/2	3175 06 21	21	4	9	23	.021
8	R1/8	3175 08 10	13	5	20	14	.011
8	R1/4	3175 08 13	14	6	17	15	.014
8	R3/8	3175 08 17	17	6	13	18.5	.021
8	R1/2	3175 08 21	21	6	12	23	.022
10	R1/8	3175 10 10	16	5	22.5	17.5	.017
10	R1/4	3175 10 13	16	7	20	17.5	.017
10	R3/8	3175 10 17	17	8	16.5	18.5	.019
10	R1/2	3175 10 21	21	8	14	23	.037
12	R1/4	3175 12 13	19	7	26.5	21	.029
12	R3/8	3175 12 17	19	9	24	21	.030
12	R1/2	3175 12 21	21	9	19.5	23	.037
14	R3/8	3175 14 17	22	9	28.5	24	.043
14	R1/2	3175 14 21	24	10	23.5	26	.047

3175 male connector — fractional inch tube to male BSPT



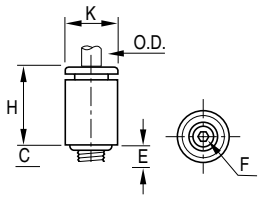
nickel-plated brass
pre-applied thread sealant



ØD in	C BSPT		F1 mm	F2 mm	H in	K in	oz
1/8	R1/8	3175 53 10	10	2	.335	.433	.39
5/32	R1/8	3175 04 10	10	3	.37	.43	.21
5/32	R1/4	3175 04 13	14	3	.26	.59	.46
3/16	R1/8	3175 55 10	7/16"	1/8"	.61	.51	.36
3/16	R1/4	3175 55 13	9/16"	5/32"	.59	.65	.74
1/4	R1/8	3175 56 10	11	4	.472	.472	.25
1/4	R1/4	3175 56 13	14	4	.374	.591	.78
5/16	R1/8	3175 08 10	13	5	.79	.55	.39
5/16	R1/4	3175 08 13	14	6	.67	.59	.49
5/16	R3/8	3175 08 17	17	6	.51	.73	.74
5/16	R1/2	3175 08 21	21	6	.47	.91	.78
3/8	R1/4	3175 60 13	16	7	.807	.689	1.02
3/8	R3/8	3175 60 17	17	7	.650	.728	1.20
3/8	R1/2	3175 60 21	21	7	.551	.906	2.22
1/2	R1/4	3175 62 13	22	6	1.06	.945	1.55
1/2	R3/8	3175 62 17	22	7	1.02	.945	1.73
1/2	R1/2	3175 62 21	24	7	.807	1.02	1.94

3171/3181 male connector — fractional inch and metric tube to 10-32 UNF, M5 or M7

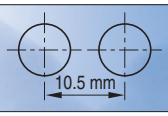
nickel-plated brass, with "O" ring seal



ØD in	C UNF	fractional inch	E in	F mm	H in	K in	oz
1/8	10-32	3171 53 20	.13	2	.49	.32	.17
5/32	10-32	3171 04 20	.13	2	.54	.34	.15
1/4	10-32	3171 56 20	.13	2	.64	.46	.20
1/4	M5	3181 56 19	.14	2.5	.65	.41	.20
1/4	M7	3181 56 55	.18	4	.65	.41	.20

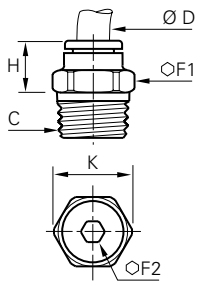
mm	M7	metric	mm	mm	mm	mm	kg
4	M7X1	3181 04 55	4.6	3	14	9.95	.005
6	M7X1	3181 06 55	4.6	3	16	9.9	.005

Recomended for use with compact high flow valves.
Because of the miniature bodies, these fittings can be placed close together.
The minimum distance between centers of the fittings is 10.5 mm (0.41").



3175 male connector — metric tube to male NPT

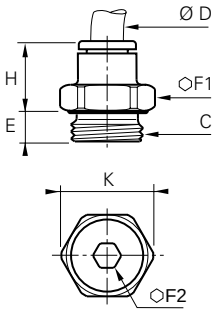
nickel-plated brass



ØD mm	C NPT		F mm	F2 mm	H in	K in	oz
4	1/8	3175 04 11	11	7/64"	.33	.47	.26
4	1/4	3175 04 14	14	7/64"	.28	.59	.56
6	1/8	3175 06 11	11	4	.45	.47	.26
6	1/4	3175 06 14	14	4	.33	.59	.50
8	1/8	3175 08 11	13	3/16"	.79	.55	.45
8	1/4	3175 08 14	14	1/4"	.66	.59	.58
8	3/8	3175 08 18	18	1/4"	.46	.77	.89
10	1/4	3175 10 14	16	7	.79	.69	.63
10	3/8	3175 10 18	18	8	.65	.77	.74
10	1/2	3175 10 22	22	8	.55	.95	1.16
12	3/8	3175 12 18	19	9	.95	.83	1.02
12	1/2	3175 12 22	22	10	.77	.95	1.23

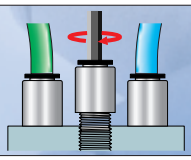
3101 male connector — metric tube to male BSPP, M3, M5, or M7

nickel-plated brass, with "O" ring seal



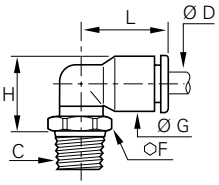
ØD mm	C BSPP/ metric		E mm	F1 mm	F2 mm	H mm	K mm	kg
3	M3x0.5	3101 03 09	2.5	8	-	12.5	8.5	.003
3	M5x0.8	3101 03 19	3.5	8	2.5	12.5	8.5	.003
4	M3x0.5	3101 04 09	2.5	8	-	14.5	8.5	.003
4	M5x0.8	3101 04 19	3.5	8	2.5	14	8.5	.003
4	M7x1	3101 04 55	5	10	2.5	14	11	.005
4	G1/8	3101 04 10	4.5	13	3	11.5	14	.007
4	G1/4	3101 04 13	5.5	16	3	10.5	17.5	.011
6	M5x0.8	3101 06 19	3.5	10	2.5	16	11	.005
6	M7x1	3101 06 55	5	10	3	16	11	.005
6	M10x1	3101 06 60	5	13	4	13	14	.030
6	M12x1.5	3101 06 67	5.5	15	4	13	16	.009
6	G1/8	3101 06 10	4.5	13	4	13	14	.007
6	G1/4	3101 06 13	5.5	16	4	12.5	17.5	.011
6	G3/8	3101 06 17	5.5	20	4	13	22	.015
6	G1/2	3101 06 21	7.5	24	4	20	26	.018
8	M10x1	3101 08 60	5	13	5	21	14	.012
8	M12x1.5	3101 08 67	5.5	15	5	21	16	.030
8	G1/8	3101 08 10	4.5	13	5	20.5	14	.011
8	G1/4	3101 08 13	5.5	16	6	19.5	17.5	.016
8	G3/8	3101 08 17	5.5	20	6	18	22	.022
8	G1/2	3101 08 21	7.5	24	6	16.5	26	.018
10	G1/4	3101 10 13	5.5	16	7	23	17.5	.018
10	G3/8	3101 10 17	5.5	20	8	19.5	22	.021
10	G1/2	3101 10 21	7.5	24	8	18.5	26	.033
12	G1/4	3101 12 13	5.5	19	7	27.5	21	.027
12	G3/8	3101 12 17	5.5	20	9	27	22	.029
12	G1/2	3101 12 21	7	24	10	22.5	26	.035
14	G3/8	3101 14 17	5.5	22	9	29.5	24	.041
14	G1/2	3101 14 21	7	24	11	28	26	.047

Their internal hexagon and circular external shape ensure that models 3171 and 3181 provide highly compact assembly. By using an Allen key, they can be installed in close proximity without the need to use a wrench.



3109 male elbow — fractional inch tube to male NPT or UNF

nylon body, nickel-plated brass base, pre-applied thread sealant on tapered threads

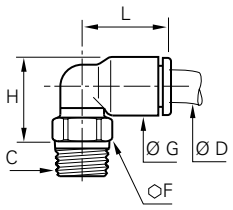


the body is orientable for positioning purposes

ØD in	C NPT/UNF		F mm	G in	H in	L in	oz
1/8	10-32	3109 53 20	8	.34	.52	.57	.14
1/8	1/16	3109 53 08	10	.34	.53	.57	.23
1/8	1/8	3109 53 11	11	.34	.53	.57	.29
1/8	1/4	3109 53 14	14	.34	.55	.57	.63
5/32	10-32	3109 04 20	8	.33	.53	.55	.14
5/32	1/8	3109 04 11	11	.33	.53	.55	.28
5/32	1/4	3109 04 14	14	.33	.55	.55	.62
3/16	1/8	3109 55 11	11	.43	.67	.85	.45
1/4	10-32	3109 56 20	11	.43	.63	.71	.26
1/4	1/8	3109 56 11	11	.43	.67	.71	.32
1/4	1/4	3109 56 14	14	.43	.63	.71	.51
1/4	3/8	3109 56 18	18	.43	.65	.71	.79
5/16	1/8	3109 08 11	11	.53	.75	.91	.29
5/16	1/4	3109 08 14	14	.53	.71	.91	.58
5/16	3/8	3109 08 18	18	.53	.73	.91	.81
3/8	1/8	3109 60 11	15	.63	.91	1.08	.60
3/8	1/4	3109 60 14	15	.63	.91	1.08	.74
3/8	3/8	3109 60 18	18	.63	.87	1.08	.96
3/8	1/2	3109 60 22	22	.63	.91	1.08	1.69
1/2	1/4	3109 62 14	20	.87	1.22	1.38	1.42
1/2	3/8	3109 62 18	20	.87	1.22	1.38	1.44
1/2	1/2	3109 62 22	24	.87	1.12	1.38	1.89

3109 male elbow — metric tube to male BSPT

nylon body, nickel-plated brass base, pre-applied thread sealant

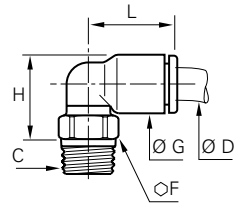


the body is orientable for positioning purposes

ØD mm	C BSPT		F mm	G mm	H mm	L mm	kg
4	R1/8	3109 04 10	10	8.5	13.5	14	.006
4	R1/4	3109 04 13	14	8.5	14	14	.014
4	R3/8	3109 04 17	17	8.5	13.5	14	.019
6	R1/8	3109 06 10	10	10.5	15.5	16	.006
6	R1/4	3109 06 13	14	10.5	16	16	.015
6	R3/8	3109 06 17	17	10.5	16	16	.016
6	R1/2	3109 06 21	21	10.5	16.5	16	.018
8	R1/8	3109 08 10	10	13.5	19	23	.013
8	R1/4	3109 08 13	14	13.5	18	23	.015
8	R3/8	3109 08 17	17	13.5	18	23	.018
8	R1/2	3109 08 21	21	13.5	19.5	23	.030
10	R1/8	3109 10 10	15	16	23	26.5	.014
10	R1/4	3109 10 13	15	16	22	26.5	.016
10	R3/8	3109 10 17	17	16	22	26.5	.019
10	R1/2	3109 10 21	21	16	22	26.5	.031
12	R1/4	3109 12 13	15	19	25	31	.071
12	R3/8	3109 12 17	17	19	25	31	.074
12	R1/2	3109 12 21	21	19	25	31	.092
14	R3/8	3109 14 17	20	22	30.5	35.5	.091
14	R1/2	3109 14 21	24	22	28.5	35.5	.095

3109 male elbow — fractional inch tube to male BSPT

nylon body, nickel-plated brass base, pre-applied thread sealant



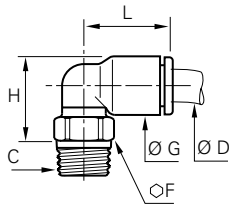
the body is orientable for positioning purposes

ØD in	C BSPT		F mm	G in	H in	L in	oz
1/8	1/8	3109 53 10	10	.335	.531	.571	.44
5/32	1/8	3109 04 10	10	.34	.53	.55	.21
5/32	1/4	3109 04 13	14	.34	.55	.55	.49
3/16	1/8	3109 55 10	11	.43	.67	.85	.46
3/16	1/4	3109 55 13	14	.33	.55	.55	.64
1/4	1/8	3109 56 10	10	.427	.669	.709	.27
1/4	1/4	3109 56 13	14	.427	.63	.709	.48
5/16	1/8	3109 08 10	10	.53	.75	.91	.46
5/16	1/4	3109 08 13	14	.53	.71	.91	.53
5/16	3/8	3109 08 17	17	.53	.71	.91	.64
5/16	1/2	3109 08 21	21	.53	.77	.91	1.06
3/8	1/4	3109 60 13	15	.63	.87	1.04	1.87
3/8	3/8	3109 60 17	17	.63	.87	1.04	1.91
1/2	1/4	3109 62 13	20	.87	1.22	1.38	1.42
1/2	3/8	3109 62 17	20	.87	1.22	1.38	2.37
1/2	1/2	3109 62 21	24	.87	1.12	1.38	2.40

We recommend the use of an extra-flat wrench.

3109 male elbow — metric tube to male NPT

nylon body, nickel-plated brass base, pre-applied thread sealant

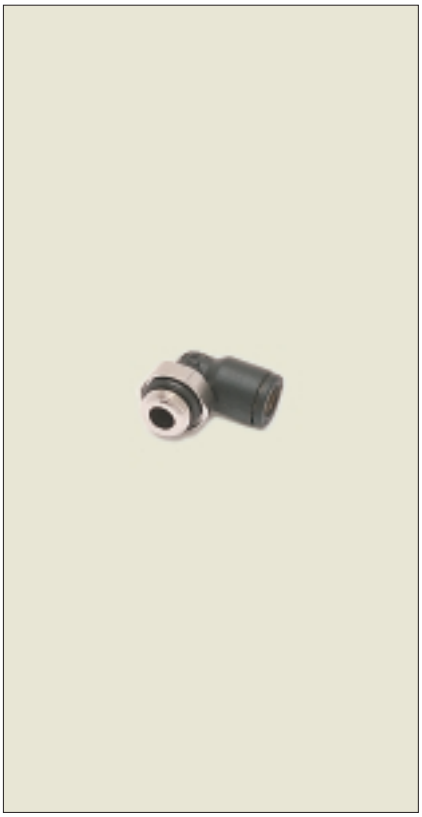


the body is orientable for positioning purposes

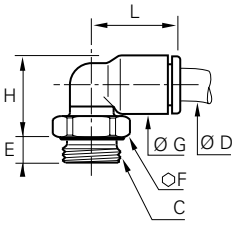
ØD mm	C NPT		F mm	G in	H in	L in	oz
4	1/8	3109 04 11	11	.33	.53	.55	.28
4	1/4	3109 04 14	14	.33	.55	.55	.62
6	1/8	3109 06 11	11	.41	.61	.63	.21
6	1/4	3109 06 14	14	.41	.63	.63	.53
8	1/8	3109 08 11	11	.53	.75	.91	.29
8	1/4	3109 08 14	14	.53	.71	.91	.58
8	3/8	3109 08 18	18	.53	.73	.91	.81
10	1/4	3109 10 14	15	.63	.91	1.04	.56
10	3/8	3109 10 18	18	.63	.87	1.04	.69
10	1/2	3109 10 22	22	.63	.91	1.04	1.09
12	3/8	3109 12 18	18	.75	.98	1.22	2.61
12	1/2	3109 12 22	22	.75	1.02	1.22	3.25

We recommend the use of an extra-flat wrench.

3199 male elbow — metric tube to BSPP, M3, M5 or M7



nylon body with "O" ring seal, nickel-plated brass base



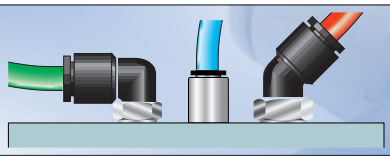
the body is orientable for positioning purposes

ØD mm	C BSPP/ metric		E mm	F mm	G mm	H mm	L mm	kg
3	M3x0.5	3199 03 09	2.5	8	8.5	15	14.5	.003
3	M5x0.8	3199 03 19	3.5	8	8.5	13.5	14.5	.003
4	M3x0.5	3199 04 09	2.5	8	8.5	15	14.5	.003
4	M5x0.8	3199 04 19	3.5	8	8.5	13.5	14	.003
4	M7x1	3199 04 55	4.5	10	8.5	15	14	.005
4	G1/8	3199 04 10	5	13	8.5	13	14	.007
4	G1/4	3199 04 13	5.5	16	8.5	13	14	.012
6	M5x0.8	3199 06 19	3.5	8	10.5	15.5	16	.015
6	M7x1	3199 06 55	4.5	10	10.5	17.5	16	.013
6	M10x1	3199 06 60	5	13	10.5	15	14	.007
6	M12x1.5	3199 06 67	5.5	15	10.5	15	16	.030
6	G1/8	3199 06 10	5	13	10.5	15	16	.008
6	G1/4	3199 06 13	5.5	16	10.5	15	16	.013
6	G3/8	3199 06 17	5.5	20	10.5	15.5	16	.014
6	G1/2	3199 06 21	7	24	10.5	16	16	.015
8	M10x1	3199 08 60	5	13	13.5	20.5	23	.025
8	M12x1.5	3199 08 67	5.5	15	13.5	19.5	23	.010
8	G1/8	3199 08 10	4.5	13	13.5	20.5	23	.014
8	G1/4	3199 08 13	5.5	16	13.5	18.5	23	.017
8	G3/8	3199 08 17	5.5	20	13.5	18.5	23	.023
8	G1/2	3199 08 21	7	24	13.5	19	23	.025
10	G1/4	3199 10 13	5.5	16	16	23.5	26.5	.029
10	G3/8	3199 10 17	5.5	20	16	22	26.5	.033
10	G1/2	3199 10 21	7.5	24	16	22	26.5	.036
12	G1/4	3199 12 13	5.5	16	19	26.5	31	.069
12	G3/8	3199 12 17	5.5	20	19	25	31	.069
12	G1/2	3199 12 21	7	24	19	25	31	.090
14	G3/8	3199 14 17	5.5	20	22	32.5	35.5	.087
14	G1/2	3199 14 21	7	24	22	27	35.5	.097

We recommend the use of an extra-flat wrench.

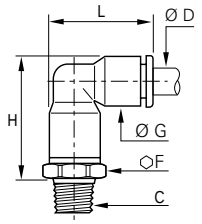
Female elbows, with NPT and BSPP threads, can be found on page A18.

Legris offers a solution for all tubing configurations.



3129 extended male elbow — fractional inch tube to male NPT

nylon body,
nickel-plated brass base,
pre-applied thread sealant

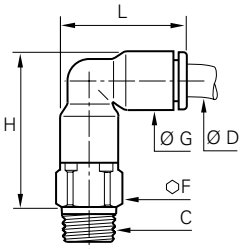


the body is orientable for positioning purposes

ØD in	C NPT		F mm	G in	H in	L in	oz
1/8	1/8	3129 53 11	11	.33	.91	.75	.36
1/8	1/4	3129 53 14	14	.33	.93	.75	.68
5/32	1/8	3129 04 11	11	.33	.91	.75	.37
5/32	1/4	3129 04 14	14	.33	.93	.75	.69
1/4	1/8	3129 56 11	11	.43	1.12	.93	.51
1/4	1/4	3129 56 14	14	.43	1.08	.93	.73
1/4	3/8	3129 56 18	17	.43	1.12	.93	.80
5/16	1/8	3129 08 11	13	.53	1.32	1.16	.73
5/16	1/4	3129 08 14	14	.53	1.28	1.16	.93
3/8	1/8	3129 60 11	17	.63	1.40	1.34	1.30
3/8	1/4	3129 60 14	17	.63	1.41	1.33	1.41
3/8	3/8	3129 60 18	18	.63	1.45	1.33	1.73

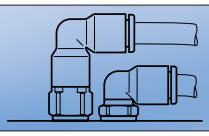
3129 extended male elbow — metric tube to male BSPT

nylon body,
nickel-plated brass base,
pre-applied thread sealant



the body is orientable for positioning purposes

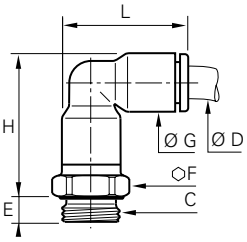
ØD mm	C BSPT		F mm	G mm	H mm	L mm	kg
4	R1/8	3129 04 10	10	8.5	23	19	.021
4	R1/4	3129 04 13	14	8.5	23.5	19	.038
6	R1/8	3129 06 10	10	10.5	27	22.5	.037
6	R1/4	3129 06 13	14	10.5	27.5	22.5	.044
8	R1/8	3129 08 10	13	13.5	34.5	29.5	.025
8	R1/4	3129 08 13	14	13.5	32.5	29.5	.026
8	R3/8	3129 08 17	17	13.5	33	29.5	.035
10	R1/4	3129 10 13	15	16	39.5	34.5	.031
10	R3/8	3129 10 17	17	16	39.5	34.5	.041
10	R1/2	3129 10 21	21	16	39.5	34.5	.042
12	R1/4	3129 12 13	19	19	45.5	40.5	.035
12	R3/8	3129 12 17	19	19	45.5	40.5	.045
12	R1/2	3129 12 21	21	19	45.5	40.5	.060
14	R3/8	3129 14 17	21	22	51.5	46.5	.080
14	R1/2	3129 14 21	21	22	51.5	46.5	.095



3129 is designed to allow very close assembly with 3109 male elbow.

3169 extended male elbow — UNF, BSPP, M5, or M7

nylon body with
"O" ring seal,
nickel-plated brass base



the body is orientable for positioning purposes

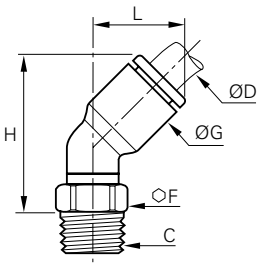
ØD in	C UNF	fractional inch	E in	F mm	G in	H in	L in	oz
1/8	10-32	3169 53 20	.20	8	.33	.91	.75	.25
5/32	10-32	3169 04 20	.20	8	.33	.91	.75	.25
1/4	10-32	3169 56 20	.20	11	.33	1.10	.93	.32
1/4	M7	3169 56 55	-	9	.43	1.17	.93	.35

mm	BSPP/ metric	metric	mm	mm	mm	mm	mm	kg
4	M5x0.8	3169 04 19	3.5	8	8.5	23	19	.007
4	M7x1	3169 04 55	4.5	10	8.5	22.5	19	.009
4	G1/8	3169 04 10	5	13	8.5	22.5	19	.009
4	G1/4	3169 04 13	5.5	16	8.5	22.5	19	.014
6	M5x0.8	3169 06 19	3.5	10	10.5	27.5	23	.009
6	M7x1	3169 06 55	4.5	10	10.5	26	23	.009
6	G1/8	3169 06 10	5	13	10.5	27	23	.012
6	G1/4	3169 06 13	5.5	16	10.5	27	23	.017
8	G1/8	3169 08 10	5	13	13.5	36	29.5	.025
8	G1/4	3169 08 13	5.5	16	13.5	33	29.5	.026
8	G3/8	3169 08 17	5.5	20	13.5	33	29.5	.035
10	G1/4	3169 10 13	5.5	16	16	40.5	34.5	.038
10	G3/8	3169 10 17	5.5	20	16	40.5	34.5	.040
10	G1/2	3169 10 21	7.5	24	16	40.5	34.5	.042
12	G1/4	3169 12 13	5.5	19	19	44.5	40.5	.060
12	G3/8	3169 12 17	5.5	20	19	42	40.5	.065
12	G1/2	3169 12 21	7.5	24	19	42	40.5	.080
14	G3/8	3169 14 17	5.5	22	22	51	46.5	.100
14	G1/2	3169 14 21	7.5	24	22	48.5	46.5	.100

45 degree male elbow

3133/3113 45° male elbow — fractional inch tube to male NPT or UNF

nylon body,
nickel-plated brass base,
pre-applied thread sealant
on tapered threads

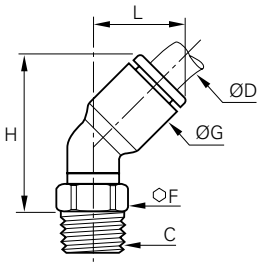


the body is orientable for positioning purposes

ØD in	C UNF/NPT		F mm	G in	H in	L in	oz
1/8	10-32	3133 53 20	8	.35	.91	.49	.28
1/8	1/8	3113 53 11	11	.35	.81	.49	.28
1/4	1/8	3113 56 11	11	.43	.98	.57	.28
1/4	1/4	3113 56 14	14	.43	.98	.57	.60
1/4	M7	3113 56 55	9	.43	1.14	.57	.28
3/8	1/4	3113 60 14	17	.63	1.36	.91	.71
3/8	3/8	3113 60 18	18	.63	1.36	.91	.81

3113 45° male elbow — metric tube to male BSPT

nylon body,
nickel-plated brass base,
pre-applied thread sealant



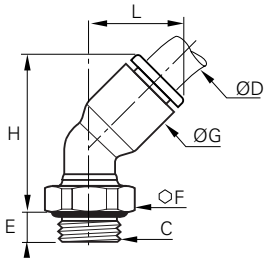
the body is orientable for positioning purposes

ØD mm	C BSPT		F mm	G mm	H mm	L mm	kg
4	R1/8	3113 04 10	10	9	24.5	13	.008
6	R1/8	3113 06 10	10	11	28	14.5	.008
6	R1/4	3113 06 13	14	11	30	14.5	.017
8	R1/8	3113 08 10	10	13.5	33.5	19.5	.016
8	R1/4	3113 08 13	14	13.5	33.5	19.5	.018
8	R3/8	3113 08 17	17	13.5	33.5	19.5	.021
10	R1/4	3113 10 13	15	16	38.5	23	.020
10	R3/8	3113 10 17	17	16	39	23	.023
10	R1/2	3113 10 21	21	16	40.5	23	.034
12	R1/4	3113 12 13	15	19	44	26	.071
12	R3/8	3113 12 17	17	19	44	26	.074
12	R1/2	3113 12 21	21	19	46	26	.092

Prevents excessive angular loads on tubing which can cause kinking and distortion of the tube.

3133 45° male elbow — metric tube to male BSPP or M5

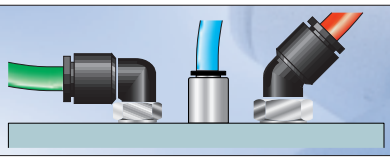
nylon body with
"O"ring seal,
nickel-plated brass base



the body is orientable for positioning purposes

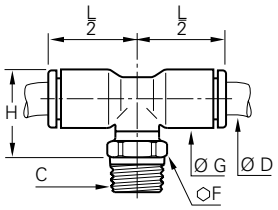
ØD mm	C BSPP/ metric		E mm	F mm	G mm	H mm	L mm	kg
4	M5x0.8	3133 04 19	3.5	8	9	23	13	.005
4	G1/8	3133 04 10	4.5	13	9	25	13	.008
6	M5x0.8	3133 06 19	3.5	8	11	30	14.5	.005
6	G1/8	3133 06 10	4.5	13	11	28.5	14.5	.008
6	G1/4	3133 06 13	5.5	16	11	29.5	14.5	.017
8	G1/8	3133 08 10	4.5	13	13.5	36	19.5	.016
8	G1/4	3133 08 13	5.5	16	13.5	34.5	19.5	.018
8	G3/8	3133 08 17	5.5	20	13.5	34.5	19.5	.021
10	G1/4	3133 10 13	5.5	16	16	40.5	23	.020
10	G3/8	3133 10 17	5.5	20	16	39	23	.023
10	G1/2	3133 10 21	7	24	16	41	23	.034
12	G1/4	3133 12 13	5.5	16	19	46	26	.071
12	G3/8	3133 12 17	5.5	20	19	44.5	26	.074
12	G1/2	3133 12 21	7	24	19	46	26	.092

Legris offers a solution for all tubing configurations.



3108 male branch tee — fractional inch tube to male NPT or UNF to tube

nylon body,
nickel-plated brass base,
pre-applied thread sealant
on tapered threads



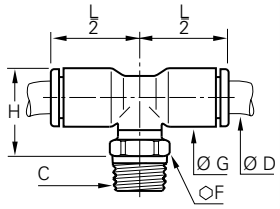
the body is orientable for positioning purposes

ØD in	C UNF/NPT		F mm	G in	H in	L/2 in	oz
1/8	10-32	3108 53 20	8	.33	.61	.57	.23
1/8	1/16	3108 53 08	10	.33	.61	.57	.27
1/8	1/8	3108 53 11	11	.33	.61	.57	.33
1/8	1/4	3108 53 14	14	.33	.63	.57	.66
5/32	10-32	3108 04 20	8	.33	.71	.55	.18
5/32	1/8	3108 04 11	11	.33	.61	.55	.32
5/32	1/4	3108 04 14	14	.33	.63	.55	.65
3/16	1/8	3108 55 11	11	.43	.67	.85	.64
1/4	1/8	3108 56 11	11	.43	.67	.71	.39
1/4	1/4	3108 56 14	14	.43	.63	.71	.56
1/4	3/8	3108 56 18	18	.43	.65	.71	.85
5/16	1/8	3108 08 11	11	.53	.87	.91	.49
5/16	1/4	3108 08 14	14	.53	.83	.91	.66
5/16	3/8	3108 08 18	18	.53	.85	.91	.97
3/8	1/8	3108 60 11	15	.63	.99	1.04	.81
3/8	1/4	3108 60 14	15	.63	.99	1.04	.88
3/8	3/8	3108 60 18	18	.63	.95	1.04	1.18
3/8	1/2	3108 60 22	22	.63	.98	1.04	1.86
1/2	1/4	3108 62 14	20	.87	1.22	1.38	1.88
1/2	3/8	3108 62 18	20	.87	1.22	1.38	1.93
1/2	1/2	3108 62 22	24	.87	1.12	1.38	2.35

We recommend the use of an extra-flat wrench.

3108 male branch tee — metric tube to male BSPT to tube

nylon body,
nickel-plated brass base,
pre-applied thread sealant



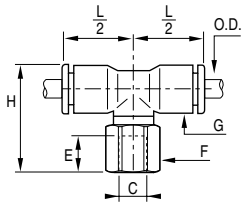
the body is orientable for positioning purposes

ØD mm	C BSPT		F mm	G mm	H mm	L/2 mm	kg
4	R1/8	3108 04 10	10	8.5	15.5	14	.007
4	R1/4	3108 04 13	14	8.5	16	14	.015
6	R1/8	3108 06 10	10	10.5	17.5	16	.009
6	R1/4	3108 06 13	14	10.5	18	16	.017
8	R1/8	3108 08 10	10	13.5	22	23	.016
8	R1/4	3108 08 13	14	13.5	21	23	.019
8	R3/8	3108 08 17	17	13.5	21	23	.020
10	R1/4	3108 10 13	15	16	24	26.5	.021
10	R3/8	3108 10 17	17	16	24	26.5	.024
10	R1/2	3108 10 21	21	16	24	26.5	.028
12	R1/4	3108 12 13	15	19	27	31	.094
12	R3/8	3108 12 17	17	19	27	31	.092
12	R1/2	3108 12 21	21	19	27	31	.109
14	R3/8	3108 14 17	20	22	30.5	35.5	.113
14	R1/2	3108 14 21	24	22	28.5	35.5	.114

We recommend the use of an extra-flat wrench.

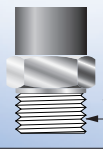
3008 female branch tee — fractional inch tube to NPT

nylon body,
nickel-plated brass base



the body is orientable for positioning purposes

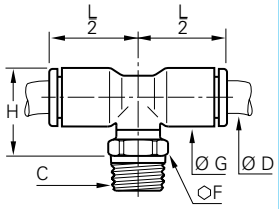
ØD in	C NPT		F mm	G in	H in	E in	L/2 in	oz
1/8	1/8	3008 53 11	13	.34	.99	.37	.57	1.02
5/32	1/8	3008 04 11	13	.33	.91	.37	.55	.43
5/32	1/4	3008 04 14	16	.33	1.08	.55	.55	.74
1/4	1/8	3008 56 11	13	.43	1.02	.37	.71	.55
1/4	1/4	3008 56 14	16	.43	1.18	.55	.71	.84
5/16	1/8	3008 08 11	13	.53	1.24	.37	.91	.66
5/16	1/4	3008 08 14	16	.53	1.40	.55	.91	1.01
3/8	1/4	3008 60 14	16	.63	1.60	.55	1.04	1.13
1/2	3/8	3008 62 18	22	.87	1.88	.65	1.38	2.94



All **taper threaded** LF3000® male fittings are supplied with a **teflon pre-applied thread sealant** for immediate installation and re-use.

3108 male branch tee — fractional inch tube to male BSPT to inch tube

nylon body,
nickel-plated brass base,
pre-applied thread sealant



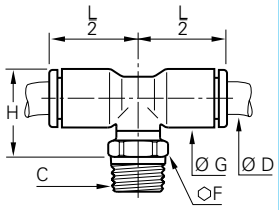
the body is orientable for positioning purposes

ØD in	C BSPT		F mm	G in	H in	L/2 in	oz
1/8	1/8	3108 53 10	10	.34	.61	.55	.33
5/32	1/8	3108 04 10	10	.34	.61	.55	.25
5/32	1/4	3108 04 13	14	.34	.63	.55	.53
3/16	1/8	3108 55 10	11	.43	.67	.85	.56
3/16	1/4	3108 55 13	14	.43	.67	.85	.82
1/4	1/8	3108 56 10	10	.43	.67	.71	.81
1/4	1/4	3108 56 13	14	.43	.63	.71	.92
5/16	1/8	3108 08 10	10	.53	.87	.91	.56
5/16	1/4	3108 08 13	14	.53	.83	.91	.67
5/16	3/8	3108 08 17	17	.53	.83	.91	.71
3/8	1/4	3108 60 13	15	.63	.95	1.04	2.40
3/8	3/8	3108 60 17	17	.63	.95	1.04	2.40
1/2	1/4	3108 62 13	20	.87	1.24	1.38	3.07
1/2	3/8	3108 62 17	20	.87	1.22	1.38	2.97

We recommend the use of an extra-flat wrench.

3108 male branch tee — metric tube to male NPT

nylon body,
nickel-plated brass base,
pre-applied thread sealant



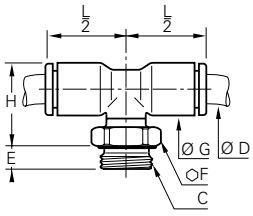
the body is orientable for positioning purposes

ØD mm	C NPT		F mm	G in	H in	L/2 in	oz
4	1/8	3108 04 11	11	.33	.61	.55	.32
4	1/4	3108 04 14	14	.33	.63	.55	.65
6	1/8	3108 06 11	11	.43	.69	.63	.32
6	1/4	3108 06 14	14	.43	.71	.63	.60
8	1/8	3108 08 11	11	.53	.87	.91	.49
8	1/4	3108 08 14	14	.53	.83	.91	.66
8	3/8	3108 08 18	18	.53	.85	.91	.97
10	1/4	3108 10 14	15	.63	.98	1.04	.74
10	3/8	3108 10 18	18	.63	.95	1.04	.85
10	1/2	3108 10 22	22	.63	.98	1.04	.99
12	3/8	3108 12 18	18	.87	1.06	1.22	3.25
12	1/2	3108 12 22	22	.87	.98	1.22	3.84

We recommend the use of an extra-flat wrench.

3198 male branch tee — metric tube to BSPP or M5 to tube

nylon body complete
with "O" ring seal,
nickel-plated brass base



the body is orientable for positioning purposes

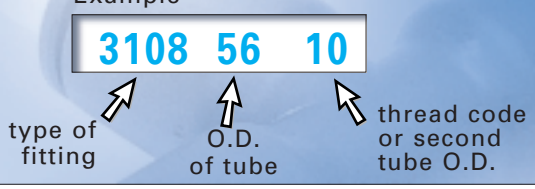
ØD mm	C M5/ BSPP		E mm	F mm	G mm	H mm	L/2 mm	kg
4	M5X0.8	3198 04 19	3.5	8	8.5	17.5	14	.004
4	G1/8	3198 04 10	5	13	8.5	15	14	.008
4	G1/4	3198 04 13	5.5	16	8.5	15	14	.013
6	M5X0.8	3198 06 19	3.5	8	10.5	19.5	16	.006
6	G1/8	3198 06 10	5	13	10.5	17	16	.010
6	G1/4	3198 06 13	5.5	16	10.5	17	16	.015
8	G1/8	3198 08 10	4.5	13	13.5	23.5	23	.017
8	G1/4	3198 08 13	5.5	16	13.5	21.5	23	.020
8	G3/8	3198 08 17	5.5	20	13.5	21.5	23	.023
10	G1/4	3198 10 13	5.5	16	16	26	26.5	.021
10	G3/8	3198 10 17	5.5	20	16	24	26.5	.024
10	G1/2	3198 10 21	7.5	24	16	24	26.5	.039
12	G1/4	3198 12 13	5.5	16	19	29	31	.088
12	G3/8	3198 12 17	5.5	20	19	27	31	.081
12	G1/2	3198 12 21	7	24	19	27	31	.092
14	G3/8	3198 14 17	5.5	20	22	32.5	35.5	.110
14	G1/2	3198 14 21	7	24	22	27	35.5	.120

We recommend the use of an extra-flat wrench.

Identification
the part numbers have been chosen by a method of mnemonics. Each LF3000® fitting is identified by:

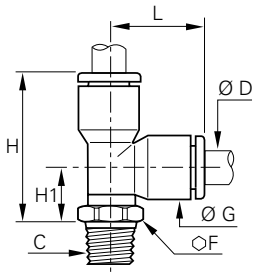
- its series
- the diameter of passage through the fitting
- by the thread code or second tube diameter

Example



3103 male run tee — fractional inch tube to tube to male NPT or UNF

nylon body, nickel-plated brass base, pre-applied thread sealant on tapered thread



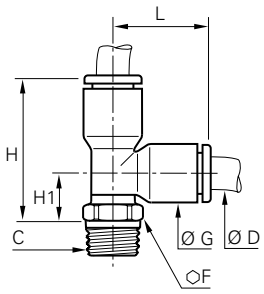
the body is orientable for positioning purposes

ØD in	C NPT/UNF		F mm	G in	H in	H1 in	L in	oz
1/8	10-32	3103 53 20	8	.33	.92	.35	.57	.19
1/8	1/16	3103 53 08	10	.33	.93	.35	.57	.24
1/8	1/8	3103 53 11	11	.33	.93	.35	.57	.31
5/32	10-32	3103 04 20	8	.33	1.02	.45	.57	.18
5/32	1/8	3103 04 11	11	.33	.93	.53	.57	.32
5/32	1/4	3103 04 14	14	.33	.94	.37	.57	.64
3/16	1/8	3103 55 11	11	.45	1.31	.45	.85	.63
1/4	1/8	3103 56 11	11	.43	1.16	.45	.69	.39
1/4	1/4	3103 56 14	14	.43	1.12	.41	.69	.58
1/4	3/8	3103 56 18	18	.43	1.14	.43	.69	.84
5/16	1/8	3103 08 11	11	.53	1.38	.49	.91	.50
5/16	1/4	3103 08 14	14	.53	1.34	.45	.91	.69
5/16	3/8	3103 08 18	18	.53	1.36	.47	.91	.97
3/8	1/8	3103 60 11	15	.63	1.63	.60	1.04	.81
3/8	1/4	3103 60 14	15	.63	1.63	.60	1.04	.81
3/8	3/8	3103 60 18	18	.63	1.60	.55	1.04	1.19
3/8	1/2	3103 60 22	22	.63	1.63	.59	1.04	1.97
1/2	1/4	3103 62 14	20	.87	2.17	.79	1.38	1.85
1/2	3/8	3103 62 18	20	.87	2.17	.79	1.38	1.93
1/2	1/2	3103 62 22	24	.87	2.07	.79	1.38	2.19

We recommend the use of an extra-flat wrench.

3103 male run tee — metric tube to tube to male BSPT

nylon body, nickel-plated brass base, pre-applied thread sealant



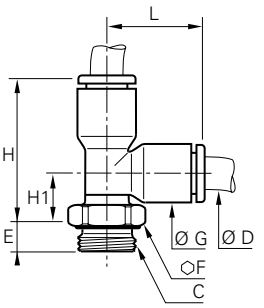
the body is orientable for positioning purposes

ØD mm	C BSPT		F mm	G mm	H mm	H1 mm	L mm	kg
4	R1/8	3103 04 10	10	8.5	23.5	9	14.5	.007
4	R1/4	3103 04 13	14	8.5	24	9.5	14.5	.010
6	R1/8	3103 06 10	10	10.5	27.5	10	17.5	.009
6	R1/4	3103 06 13	14	10.5	28	10.5	17.5	.017
8	R1/8	3103 08 10	10	13.5	35	12	23	.016
8	R1/4	3103 08 13	14	13.5	34	11	23	.019
8	R3/8	3103 08 17	17	13.5	34	11	23	.020
10	R1/4	3103 10 13	15	16	40.5	14	26.5	.021
10	R3/8	3103 10 17	17	16	40.5	14	26.5	.024
10	R1/2	3103 10 21	21	16	40.5	14	26.5	.028
12	R1/4	3103 12 13	15	19	46.5	15.5	31	.094
12	R3/8	3103 12 17	17	19	46.5	15.5	31	.092
12	R1/2	3103 12 21	21	19	46.5	15.5	31	.109
14	R3/8	3103 14 17	20	22	55	19.5	35.5	.113
14	R1/2	3103 14 21	24	22	52.5	17.5	35.5	.114

We recommend the use of an extra-flat wrench.

3193 male run tee — metric tube to tube to male BSPP or M5

nylon body complete with "O" ring seal, nickel-plated brass base



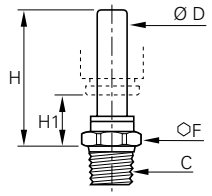
the body is orientable for positioning purposes

ØD mm	C M5/ BSPP		E mm	F mm	G mm	H mm	H1 mm	L mm	kg
4	M5x0.8	3193 04 19	3.5	8	8.5	26	11.5	14.5	.004
4	G1/8	3193 04 10	5	13	8.5	23	8.5	14.5	.008
4	G1/4	3193 04 13	5.5	16	8.5	23	8.5	14.5	.013
6	M5x0.8	3193 06 19	3.5	8	10.5	29.5	12.5	17.5	.007
6	G1/8	3193 06 10	5	13	10.5	27	10	17.5	.010
6	G1/4	3193 06 13	5.5	16	10.5	27	10	17.5	.015
8	G1/8	3193 08 10	4.5	13	13.5	36.5	14	23	.017
8	G1/4	3193 08 13	5.5	16	13.5	34.5	12	23	.020
8	G3/8	3193 08 17	5.5	20	13.5	34.5	12	23	.023
10	G1/4	3193 10 13	5.5	16	16	42	15.5	26.5	.021
10	G3/8	3193 10 17	5.5	20	16	40.5	14	26.5	.023
10	G1/2	3193 10 21	7.5	24	16	40.5	14	26.5	.039
12	G1/4	3193 12 13	5.5	16	19	48	17	31	.087
12	G3/8	3193 12 17	5.5	20	19	46.5	15.5	31	.088
12	G1/2	3193 12 21	7	24	19	46.5	15.5	31	.091
14	G3/8	3193 14 17	5.5	20	22	56.5	21.5	35.5	.110
14	G1/2	3193 14 21	7	24	22	51	16	35.5	.120

We recommend the use of an extra-flat wrench.

3121 male standpipe NPT — fractional inch

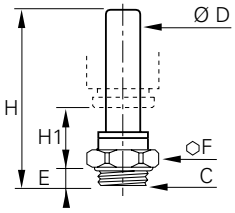
nylon probe, nickel-plated brass base, pre-applied thread sealant



ØD in	C NPT		F mm	H in	H1 in	oz
5/32	1/8	3121 04 11	11	1.02	.57	.26
5/32	1/4	3121 04 14	14	1.04	.59	.59
1/4	1/8	3121 56 11	11	1.18	.61	.28
1/4	1/4	3121 56 14	14	1.12	.57	.49
5/16	1/8	3121 08 11	11	1.16	.43	.28
5/16	1/4	3121 08 14	14	1.12	.39	.49
3/8	1/8	3121 60 11	15	1.75	.65	.45
3/8	1/4	3121 60 14	15	1.42	.67	.59
3/8	3/8	3121 60 18	17	1.42	.61	.80
1/2	3/8	3121 62 18	17	1.44	.37	.90
1/2	1/2	3121 62 22	21	1.46	.39	1.63

3131 male standpipe 10-32 UNF — fractional inch

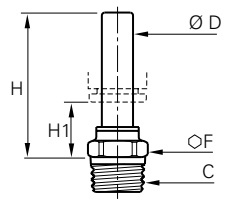
nylon probe, nickel-plated brass base with sealing washer



ØD in	C UNF		E in	F mm	H in	oz
5/32	10-32	3131 04 20	.14	8	1.24	.12

3121 male standpipe BSPT — metric

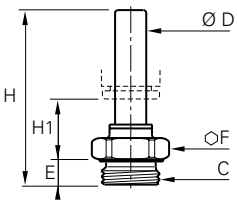
nylon probe, nickel-plated brass base, pre-applied thread sealant



ØD mm	C BSPT		F mm	H mm	H1 mm	kg
4	R1/8	3121 04 10	10	26	14	.005
4	R1/4	3121 04 13	14	26.5	14.5	.013
6	R1/8	3121 06 10	10	28	14	.005
6	R1/4	3121 06 13	14	28.5	14.5	.013
8	R1/8	3121 08 10	10	29.5	11	.006
8	R1/4	3121 08 13	14	28.5	10	.008
8	R3/8	3121 08 17	17	28.5	10	.012
10	R1/4	3121 10 13	15	36	15.5	.010
10	R3/8	3121 10 17	17	36	15.5	.012
10	R1/2	3121 10 21	21	36	15.5	.022
12	R3/8	3121 12 17	17	36.5	12	.022
12	R1/2	3121 12 21	21	36.5	12	.043
14	R1/2	3121 14 21	21	41	13.5	.043

3131 male standpipe BSPP or M5 — metric

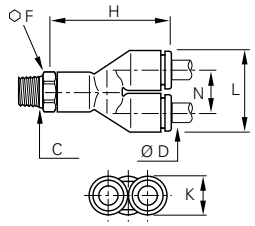
nylon probe, nickel-plated brass base with sealing washer



ØD mm	C M5/ BSPP		E mm	F mm	H mm	H1 mm	kg
4	M5x0.8	3131 04 19	3.5	8	31	16	.002
4	G1/8	3131 04 10	5	13	30	13.5	.006
4	G1/4	3131 04 13	5.5	16	31	13.5	.011
6	G1/8	3131 06 10	5	13	32	13.5	.006
6	G1/4	3131 06 13	5.5	16	33	13.5	.011
8	G1/8	3131 08 10	5	13	35.5	12.5	.006
8	G1/4	3131 08 13	5.5	16	34.5	10.5	.012
8	G3/8	3131 08 17	5.5	20	34.5	10.5	.015
10	G1/4	3131 10 13	5.5	16	43.5	17.5	.012
10	G3/8	3131 10 17	5.5	20	41.5	15.5	.015
10	G1/2	3131 10 21	7.5	24	41.5	15.5	.026
12	G3/8	3131 12 17	5.5	20	42	12	.052
12	G1/2	3131 12 21	7	24	43.5	12	.056
14	G3/8	3131 14 17	5.5	20	46.5	14	.039
14	G1/2	3131 14 21	7	24	48	13.5	.049

3148 ”Y“ male — fractional inch tube to NPT

nylon body
nickel-plated brass base
pre-applied thread sealant

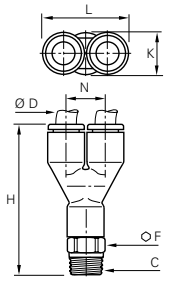


the body is orientable for positioning purposes

ØD in	C NPT		F mm	H in	K in	L in	N in	oz
5/32	1/8	3148 04 11	11	1.28	.33	.69	.35	.42
5/32	1/4	3148 04 14	14	1.30	.33	.69	.35	.79
1/4	1/8	3148 56 11	11	1.61	.43	.87	.45	.59
1/4	1/4	3148 56 14	14	1.56	.43	.87	.45	.80
3/8	1/4	3148 60 14	17	2.24	.63	1.30	.67	1.61
3/8	3/8	3148 60 18	18	2.28	.63	1.30	.67	1.94

3148 ”Y“ male — metric tube to BSPT

nylon body
nickel-plated brass base
pre-applied thread sealant

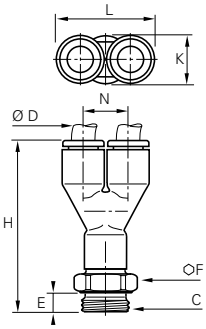


the body is orientable for positioning purposes

ØD mm	C BSPT		F mm	H mm	K mm	L mm	N mm	kg
4	R1/8	3148 04 10	10	32.5	8.5	17.5	9	.010
4	R1/4	3148 04 13	14	33	8.5	17.5	9	.018
6	R1/8	3148 06 10	10	39.5	10.5	21.5	11	.012
6	R1/4	3148 06 13	14	40	10.5	21.5	11	.019
8	R1/8	3148 08 10	13	56.5	13.5	28	14.5	.033
8	R1/4	3148 08 13	14	55.5	13.5	28	14.5	.037
8	R3/8	3148 08 17	16	48.5	13.5	28	14.5	.040
10	R1/4	3148 10 13	14	60	19	39	20	.040
10	R3/8	3148 10 17	16	60.5	19	39	20	.043
10	R1/2	3148 10 21	24	61	19	39	20	.045
12	R3/8	3148 12 17	19	66	19	39	20	.045
12	R1/2	3148 12 21	21	66	19	39	20	.047

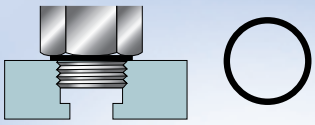
3158 ”Y“ male — metric tube to BSPP or M5

nylon body,
nickel-plated brass base,
with ”O“ ring seal



the body is orientable for positioning purposes

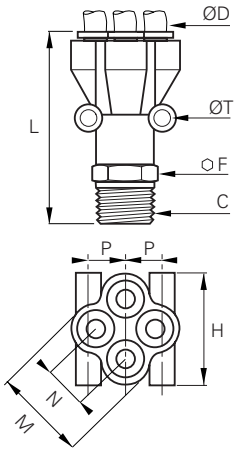
ØD mm	C M5/ BSPP		E mm	F mm	H mm	K mm	L mm	N mm	kg
4	M5x0.8	3158 04 19	3.5	8	32.5	8.5	17.5	9	.010
4	G1/8	3158 04 10	5	13	32	8.5	17.5	9	.010
4	G1/4	3158 04 13	5.5	16	32	8.5	17.5	9	.015
6	M5x0.8	3158 06 19	3.5	10	39.5	10.5	21.5	11	.011
6	G1/8	3158 06 10	5	13	39	10.5	21.5	11	.014
6	G1/4	3158 06 13	5.5	16	39	10.5	21.5	11	.019
8	G1/8	3158 08 10	5	13	56	13.5	28	14.5	.033
8	G1/4	3158 08 13	5.5	16	55	13.5	28	14.5	.039
8	G3/8	3158 08 17	6	19	54	13.5	28	14.5	.040
10	G1/4	3158 10 13	5.5	16	63.5	16	33	17	.040
10	G3/8	3158 10 17	6	20	63.5	16	33	17	.043
10	G1/2	3158 10 21	7	20	65	16	33	17	.045
12	G3/8	3158 12 17	6	19	68	19	39	20	.045
12	G1/2	3158 12 21	7	24	70	19	39	20	.047



All LF3000® fittings with **BSPP and M5 threads** are supplied complete with **an integral “O” ring seal**. This permits instant assembly of the fitting, without preparation of the thread, and provides a fixed assembled height to the fitting.

3112 double “Y” male — metric tube to BSPT

nylon body
nickel-plated brass base,
pre-applied thread sealant

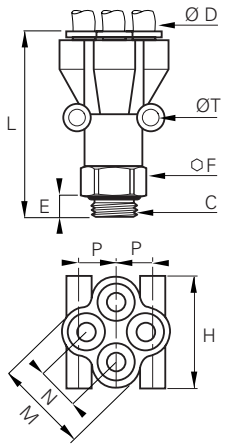


the body is orientable for positioning purposes

ØD mm	C BSPT		F mm	H mm	L mm	M mm	N mm	P mm	T mm	kg
4	R1/8	3112 04 10	13	25.5	41.5	21	10	8.5	3.7	.033
4	R1/4	3112 04 13	14	25.5	43.5	21	10	8.5	3.7	.046
6	R1/8	3112 06 10	19	31.5	54.5	26.5	12	10	3.7	.053
6	R1/4	3112 06 13	19	31.5	57.5	26.5	12	10	3.7	.066

3132 double “Y” male — metric tube to BSPP

nylon body,
nickel-plated brass base,
with “O” ring seal

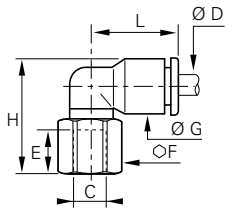


the body is orientable for positioning purposes

ØD mm	C BSPP		E mm	F mm	H mm	L mm	M mm	N mm	P mm	T mm	kg
4	G1/8	3132 04 10	5	13	25.5	41	21	10	8.5	3.7	.039
4	G1/4	3132 04 13	5.5	16	25.5	40	21	10	8.5	3.7	.046
6	G1/8	3132 06 10	5	19	31.5	52.5	26.5	12	10	3.7	.066
6	G1/4	3132 06 13	5.5	19	31.5	53.5	26.5	12	10	3.7	.053

3009 female elbow — fractional inch tube to NPT

nylon body,
nickel-plated brass base

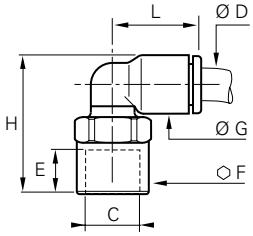


the body is orientable for positioning purposes

ØD in	C NPT		F mm	G in	H in	E in	L in	oz
1/8	1/8	3009 53 11	13	.34	.91	.37	.57	.38
5/32	1/8	3009 04 11	13	.33	.91	.37	.55	.41
5/32	1/4	3009 04 14	16	.33	1.08	.55	.55	.14
1/4	1/8	3009 56 11	13	.43	1.02	.37	.71	.47
1/4	1/4	3009 56 14	16	.43	1.18	.55	.71	.38
5/16	1/8	3009 08 11	13	.53	1.12	.37	.91	.50
5/16	1/4	3009 08 14	16	.53	1.28	.55	.91	.85
3/8	1/4	3009 60 14	16	.63	1.52	.55	1.04	.90
1/2	3/8	3009 62 18	22	.87	1.88	.65	1.38	2.47

3192 female elbow — metric tube to BSPP

nylon body,
nickel-plated brass base



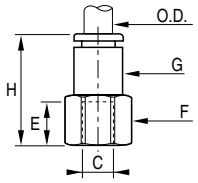
the body is orientable for positioning purposes

ØD mm	C BSPP		E mm	F mm	G mm	H mm	L mm	kg
4	G1/8	3192 04 10	8.5	13	8.5	23	14	.009
4	G1/4	3192 04 13	11.5	16	8.5	27	14	.012
6	G1/8	3192 06 10	8.5	13	10.5	25	16	.011
6	G1/4	3192 06 13	11.5	16	10.5	29	16	.011
8	G1/8	3192 08 10	8.5	13	13.5	28	23	.014
8	G1/4	3192 08 13	11.5	16	13.5	32	23	.017
8	G3/8	3192 08 17	12	19	13.5	33	23	.022
10	G1/4	3192 10 13	11	16	16	34.5	26.5	.029
10	G3/8	3192 10 17	12	19	16	35	26.5	.034
10	G1/2	3192 10 21	16	24	16	41	26.5	.037
12	G1/4	3192 12 13	11	16	19	38	30.5	.040
12	G3/8	3192 12 17	12	19	19	38.5	30.5	.041
12	G1/2	3192 12 21	16	24	19	43.5	30.5	.045

straight female connector

3014 straight female connector — fractional inch tube to NPT

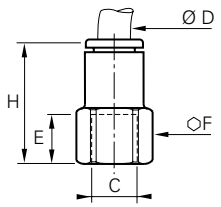
nickel-plated brass



ØD in	C NPT		F mm	G in	H in	E in	oz
1/8	1/8	3014 53 11	13	.43	.87	.37	.48
1/8	1/4	3014 53 14	16	.43	1.05	.55	.74
5/32	1/8	3014 04 11	13	.33	.89	.37	.37
5/32	1/4	3014 04 14	16	.33	1.06	.55	.65
3/16	1/8	3014 55 11	9/16		1.06		.76
3/16	1/4	3014 55 14	11/16		1.26		1.01
1/4	1/8	3014 56 11	13	.42	.98	.37	.44
1/4	1/4	3014 56 14	16	.42	1.16	.55	.66
5/16	1/8	3014 08 11	13	.53	1.14	.37	.55
5/16	1/4	3014 08 14	16	.53	1.32	.55	.85
3/8	1/8	3014 60 11	16	.61	1.22	.37	.94
3/8	1/4	3014 60 14	16	.61	1.40	.55	.94
3/8	3/8	3014 60 18	22	.61	1.52	.65	1.85
1/2	3/8	3014 62 18	22	.85	1.81	.65	3.25
1/2	1/2	3014 62 22	24	.85	1.93	.77	4.02

3114 straight female connector — metric tube to BSPP or M5

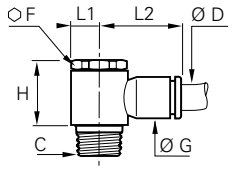
nickel-plated brass



ØD mm	C M5/ BSPP		E mm	F mm	H mm	kg
4	M5x0.8	3114 04 19	6.5	8	19.5	.005
4	G1/8	3114 04 10	9.5	13	22.5	.010
4	G1/4	3114 04 13	13.5	16	26.5	.016
6	G1/8	3114 06 10	9.5	13	24.5	.011
6	G1/4	3114 06 13	13.5	16	28.5	.016
8	G1/8	3114 08 10	9.5	13	29	.020
8	G1/4	3114 08 13	13.5	16	33	.027
8	G3/8	3114 08 17	14	19	34	.030
10	G1/4	3114 10 13	13.5	16	36	.037
10	G3/8	3114 10 17	14	19	36	.040
10	G1/2	3114 10 21	19.5	24	41.5	.045
12	G3/8	3114 12 17	14	19	40	.092
12	G1/2	3114 12 21	19.5	24	45.5	.114
14	G3/8	3114 14 17	14	22	42.5	.140

3018 banjo — fractional inch tube to NPT

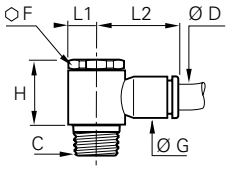
nylon body, nickel-plated brass base, pre-applied thread sealant



ØD in	C NPT		F mm	G in	H in	L1 in	L2 in	oz
5/32	1/8	3018 04 11	13	.33	.73	.28	.73	.72
1/4	1/8	3018 56 11	13	.43	.73	.28	.83	.75
1/4	1/4	3018 56 14	17	.43	.89	.37	.91	1.41
1/4	3/8	3018 56 18	21	.43	1.04	.43	1.12	2.60
3/8	1/4	3018 60 14	17	.63	.89	.37	1.12	2.34
3/8	3/8	3018 60 18	21	.63	1.04	.43	1.20	2.37

3018 banjo — metric tube to BSPT

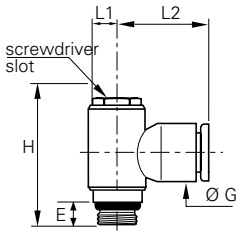
nylon body, nickel-plated brass base, pre-applied thread sealant



ØD mm	C BSPT		F mm	G mm	H mm	L1 mm	L2 mm	kg
4	R1/8	3018 04 10	13	8.5	18.5	7	18.5	.010
6	R1/8	3018 06 10	13	10.5	18.5	7	20	.011
6	R1/4	3018 06 13	17	10.5	22.5	9.5	22	.015
8	R1/8	3018 08 10	13	13.5	18.5	7	25	.022
8	R1/4	3018 08 13	17	13.5	22.5	9.5	27	.030
8	R3/8	3018 08 17	21	13.5	26.5	11	29	.049
10	R1/4	3018 10 13	17	16	22.5	9.5	29	.058
10	R3/8	3018 10 17	21	16	26.5	11	31	.061
12	R1/4	3018 12 13	21	19	26.5	11	34.5	.065
12	R3/8	3018 12 17	21	19	26.5	11	34.5	.067
12	R1/2	3018 12 21	25	19	30	13.5	37	.090

3118 banjo — fractional inch tube to 10-32 UNF

nylon body, nickel-plated brass bolt complete with sealing "O" ring

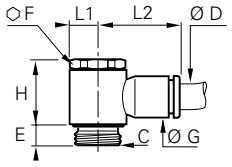


ØD in	C UNF		E in	G in	H in	L1 in	L2 in	oz
1/8	10-32	3118 53 20*	.16	.33	.51	.20	.63	.23
5/32	10-32	3118 04 20*	.16	.33	.51	.20	.63	.23
1/4	10-32	3118 56 20*	.16	.43	.51	.20	.75	.40

**with screwdriver slot*

3118 banjo — metric tube to BSPP, M3 or M5

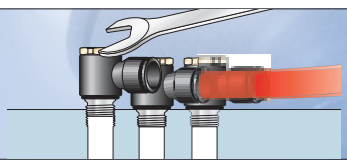
nylon body, nickel-plated brass bolt complete with sealing "O" ring



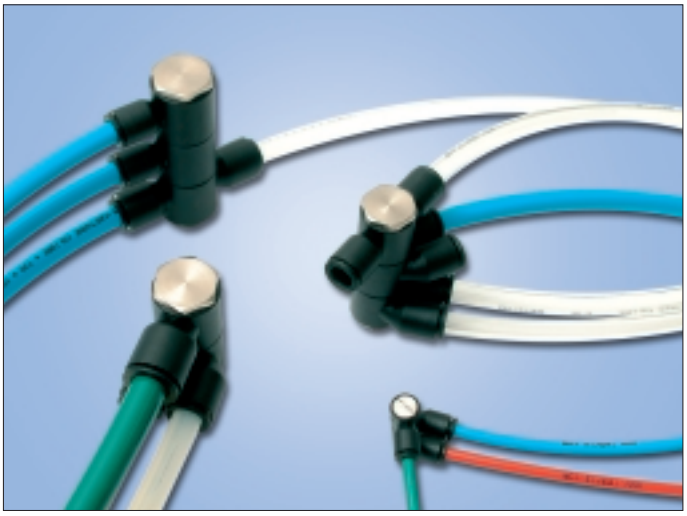
ØD mm	C BSPP/ metric		E mm	F mm	G mm	H mm	L1 mm	L2 mm	kg
3	M3x0.5	3118 03 09*	3	-	8.5	13	5	16	.007
3	M5x0.8	3118 03 19*	4	-	8.5	13	5	16	.007
4	M5x0.8	3118 04 19*	4	-	8.5	13	5	16	.007
4	G1/8	3118 04 10	4	13	8.5	17	7	18.5	.010
6	M5x0.8	3118 06 19*	4	-	10.5	13	7	18.5	.008
6	G1/8	3118 06 10	4	13	10.5	17	7	20	.011
6	G1/4	3118 06 13	5.5	17	10.5	21	9	22	.015
8	G1/8	3118 08 10	4	13	13.5	16.5	7	25	.022
8	G1/4	3118 08 13	5.5	17	13.5	21	9	27	.030
8	G3/8	3118 08 17	5.5	20	13.5	24.5	11	29	.049
10	G1/4	3118 10 13	5.5	17	16	21	9	29	.058
10	G3/8	3118 10 17	5.5	20	16	24.5	11	31	.061
10	G1/2	3118 10 21	8	25	19	27.5	13.5	36.5	.085
12	G3/8	3118 12 17	5.5	20	19	24.5	11.5	34.5	.067
12	G1/2	3118 12 21	8	25	19	27.5	13.5	36.5	.072

**with screwdriver slot*

Legris banjos allow **easy access**, even when connections are close together.



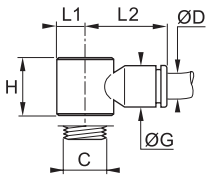
banjo bodies for modular construction



By stacking 2 and 3 compact bodies on top of each other using one bolt, a wide range of permutations of fittings, modules and manifolds can be constructed. Between 2 to 6 outlets in one modular construction are possible; the tube diameters may be different or the same. Wide flexibility in the creation of fittings to meet the personalized requirements of the end user.

3538 single banjo bodies — metric

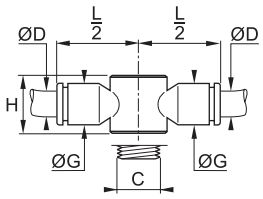
nylon body



ØD mm	C M5/BSPP		G mm	H mm	L1 mm	L2 mm	kg
3	M5x0.8	3538 03 19	8.5	13	5	16	0.004
4	M5x0.8	3538 04 19	8.5	13	5	16	0.004
4	G1/8	3538 04 10	10.5	14.5	7	18.5	0.006
6	M5x0.8	3538 06 19	11	13	5	18.5	0.004
6	G1/8	3538 06 10	10.5	14.5	7	20	0.007
6	G1/4	3538 06 13	13.5	18	9.5	22	0.009
8	G1/8	3538 08 10	13.5	14.5	7	25	0.015
8	G1/4	3538 08 13	13.5	18	9.5	27	0.020
8	G3/8	3538 08 17	13.5	21.5	11.5	29	0.020
10	G1/4	3538 10 13	16	18	9.5	29	0.035
10	G3/8	3538 10 17	16	21.5	11.5	31	0.035
10	G1/2	3538 10 21	19	22.5	13.5	36.5	0.035
12	G3/8	3538 12 17	19	21.5	11.5	34.5	0.040
12	G1/2	3538 12 21	19	22.5	13.5	36.5	0.040

3539 double banjo bodies — metric

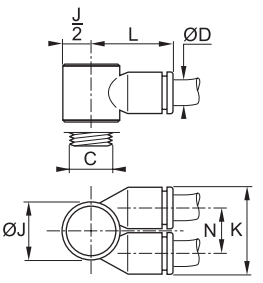
nylon body



ØD mm	C M5/BSPP		G mm	H mm	L/2 mm	kg
4	M5x0.8	3539 04 19	8.5	13	16	0.007
4	G1/8	3539 04 10	10.5	14.35	20	0.008
6	G1/8	3539 06 10	10.5	14.35	20	0.011
6	G1/4	3539 06 13	13.5	18	26	0.012
8	G1/4	3539 08 13	13.5	18	27	0.017
8	G3/8	3539 08 17	16	21.5	30.5	0.025
10	G3/8	3539 10 17	16	21.5	31	0.025

3549 twin banjo bodies — metric

nylon body

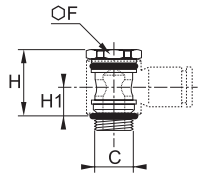


ØD mm	C M5/BSPP		J mm	K mm	L mm	N mm	kg
4	M5x0.8	3549 04 19	10	17.5	15.5	9	0.007
4	G1/8	3549 04 10	14	22.5	20	12	0.008
4	G1/4	3549 04 13	18.5	28	25	14.5	0.011
6	G1/8	3549 06 10	14	22.5	20.5	12	0.011
6	G1/4	3549 06 13	18.5	28	25	14.5	0.012
6	G3/8	3549 06 17	22.5	33	28.5	17	0.022
8	G1/4	3549 08 13	18.5	28	26	14.5	0.017
8	G3/8	3549 08 17	22.5	33	29.5	17	0.025
10	G3/8	3549 10 17	22.5	33	29.5	17	0.025

This model allows two outlets to be on the same side and to run parallel to each other.

3527 single banjo bolts — BSPP or M5

brass stem with o-ring seal



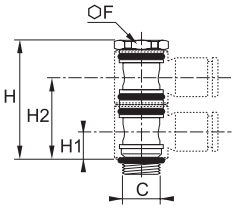
full bore

C BSPP/ M5		F mm	H mm	H1 mm	kg
M5x0.8	3527 00 19*		17	7.5	0.003
G1/8	3527 00 10	13	17	7.5	0.014
G1/4	3527 00 13	17	21	9.5	0.024
G3/8	3527 00 17	20	24.5	11	0.038
G1/2	3527 00 21	25	27.5	11.5	0.050

* With screwdriver slot

3528 stacking banjo for 2 body high modules BSPP or M5

brass stem with o-ring seal



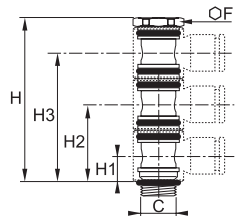
full bore

C BSPP/ M5		F mm	H mm	H1 mm	H2 mm	kg
M5x0.8	3528 00 19*		24.5	7.5	18.5	0.004
G1/8	3528 00 10	13	31	7.5	22	0.020
G1/4	3528 00 13	17	39	9.5	27.5	0.029
G3/8	3528 00 17	20	46	11	32.5	0.048

* With screwdriver slot
Designed for use with 2 banjo bodies.

3529 stacking banjo for 3 body high modules BSPP

brass stem with o-ring seal



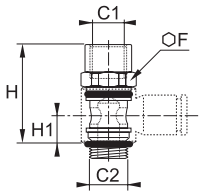
full bore

C BSPP		F mm	H mm	H1 mm	H2 mm	H2 mm	kg
G1/8	3529 00 10	13	45.5	7.5	22	36	0.026
G1/4	3529 00 13	17	54	9.5	27.5	45.5	0.036
G3/8	3529 00 17	20	67.5	11	32.5	54	0.059

Designed for use with 3 banjo bodies.

3524 female threaded banjo bolts — BSPP or M5

brass stem with o-ring seal

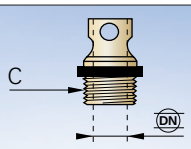


full bore

C1 BSPP/ M5	C2 BSPP/ M5		F mm	H mm	H1 mm	kg
M5x0.8	M5x0.8	3524 00 19	8	17	7.5	0.004
G1/8	G1/8	3524 00 10	13	24.5	7.5	0.017
G1/4	G1/4	3524 00 13	17	33	9.5	0.026
G3/8	G3/8	3524 00 17	20	37.5	11	0.045
G1/2	G1/2	3524 00 21	25	42	11.5	0.057

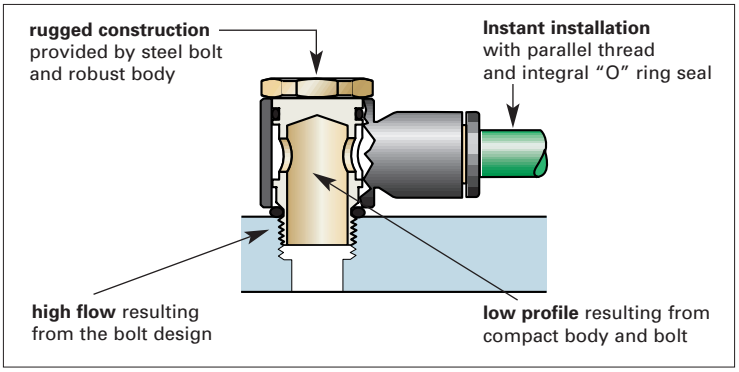
The range of banjo bolts 3527 – 3528 – 3529 and 3524 is only useable in association with the corresponding bodies for modular construction 3538 – 3539 and 3549

Thread bore for part numbers,
3527, 3528, 3529, and 3524



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

banjo with female bolt



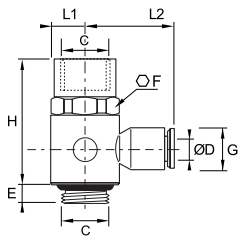
Specification includes:

- **parallel and metric threads** with an integral "O" ring seal offer the same advantages as those found on male fittings; instant assembly, security and consistent assembled height.
- **compactness** and **low profile** for better space utilization and accessibility.
- **full flow**, equivalent to the size of male elbows, and robust construction utilizing a steel bolt.

Thread	M3x0.5	M5x0.8	G1/8"	G1/4"	3/8"
in. lb	4	8	33	41	50

3124 banjo with female BSPP bolt — metric tube to M5 or BSPP

nylon body with o-ring seal, nickel-plated brass bolt



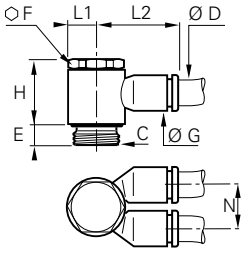
ØD mm	C BSPP/M5		E mm	F mm	G mm	H mm	L1 mm	L2 mm	kg
4	M5x0.8	3124 04 19	4	8	8.5	19	5	16	0.006
4	G1/8	3124 04 10	4	13	8.5	25.5	7	18.5	0.012
6	G1/4	3124 06 13	5.5	17	10.5	33	9	22	0.031
8	G3/8	3124 08 17	5.5	20	13.5	37.5	11	29	0.056

This is a useful component allowing:

- the mounting of function fittings (sensors, flow controls and pressure reducers).
- the tapping off of a pneumatic supply from a pneumatic cylinder.

3149/3049 twin banjo — tube to NPT, UNF, BSPP or M5

nylon body with o-ring seal, nickel-plated brass bolt



* with screwdriver slot

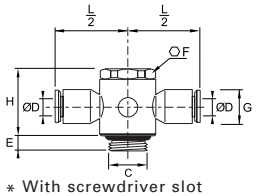
ØD in	C UNF/ NPT	fractional inch	E in	F mm	G in	H in	L1 in	L2 in	N in	oz
5/32	10-32	3149 04 20	.16	-	.33	.51	.20	.61	.45	.28
5/32	1/8	3049 04 11	-	13	.43	.73	.28	.73	.57	.46
1/4	1/8	3049 56 11	-	13	.43	.73	.28	.73	.57	.46
1/4	1/4	3049 56 14	-	17	.43	.89	.37	1.04	.57	1.20
3/8	1/4	3049 60 14	-	21	.63	1.04	.43	1.22	.67	1.20
3/8	3/8	3049 60 18	-	21	.63	1.04	.43	1.22	.67	2.33

mm	BSPP/M5	metric	mm	mm	mm	mm	mm	mm	mm	kg
4	M5x0.8	3149 04 19*	4	-	8.5	13	4.5	16	9	.008
4	G1/8	3149 04 10	4	13	10.5	16.5	7	18.5	11.5	.013
6	G1/8	3149 06 10	4	13	10.5	16.5	7	18.5	11.5	.013
6	G1/4	3149 06 13	5.5	17	13.5	21	9.5	27	14.5	.034
8	G1/4	3149 08 13	5.5	17	13.5	21	9.5	27	14.5	.034
8	G3/8	3149 08 17	5.5	20	16	24.5	11	31	17	.066
10	G3/8	3149 10 17	5.5	20	16	24.5	11	31	17	.066

This fitting provides 2 parallel outlets on the same side.

3119 double banjo — metric tube to BSPP or M5

nylon body with o-ring seal, nickel-plated brass bolt

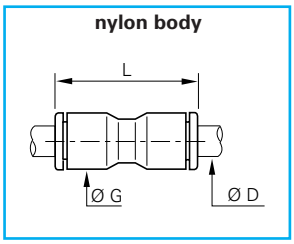


* With screwdriver slot

ØD mm	C BSPP/M5		E	F	G	H	L/2	kg
4	M5x0.8	3119 04 19*	4	-	8.5	13	16	0.005
4	G1/8	3119 04 10	4	13	11	17	20	0.021
6	G1/8	3119 06 10	4	13	11	17	20	0.024
6	G1/4	3119 06 13	5.5	17	13.5	21	26.5	0.031
8	G1/4	3119 08 13	5.5	17	13.5	21	27	0.033
8	G3/8	3119 08 17	5.5	20	16	24.5	30.5	0.052
10	G3/8	3119 10 17	5.5	20	16	24.5	31	0.045

3106 union — fractional inch tube to tube

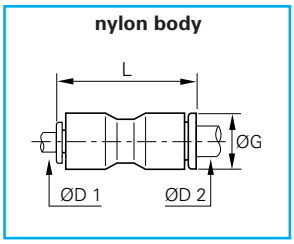
nylon body



ØD in		G in	L in	oz
1/8	3106 53 00	.34	.97	.11
5/32	3106 04 00	.33	.98	.07
3/16	3106 55 00	.43	1.44	.39
1/4	3106 56 00	.43	1.16	.14
5/16	3106 08 00	.53	1.50	.25
3/8	3106 60 00	.63	1.65	.40
1/2	3106 62 00	.87	2.17	.95

3106 unequal union — fractional inch tube to tube

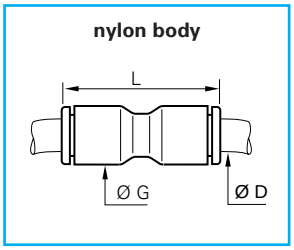
nylon body



ØD1 in	ØD2 in		G in	L in	oz
1/8	5/32	3106 53 04	.33	.96	.11
1/8	1/4	3106 53 56	.43	1.32	.34
5/32	1/4	3106 04 56	.43	1.16	.34
1/4	5/16	3106 56 08	.53	1.44	.40
3/8	1/4	3106 60 56	.63	1.61	.50
3/8	1/2	3106 60 62	.87	2.17	.55

3106 union — metric tube to tube

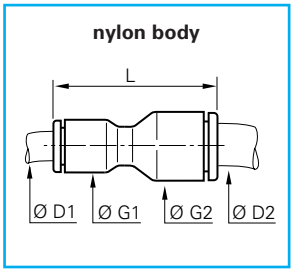
nylon body



ØD mm		G mm	L mm	kg
3	3106 03 00	8.5	25	.002
4	3106 04 00	8.5	25	.002
6	3106 06 00	10.5	28.5	.004
8	3106 08 00	13.5	38	.007
10	3106 10 00	16	42	.009
12	3106 12 00	19	50.5	.015
14	3106 14 00	22	56	.043

3106 unequal union — metric tube to tube

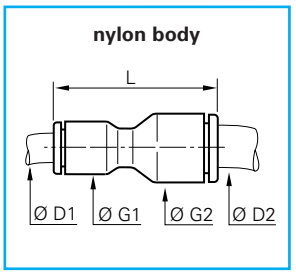
nylon body



ØD1 mm	ØD2 mm		G1 mm	G2 mm	L mm	kg
3	4	3106 03 04	8.5	8.5	25	.002
4	6	3106 04 06	8.5	11	28	.008
4	8	3106 04 08	13.5	13.5	38	.010
6	8	3106 06 08	13.5	13.5	38	.012
6	10	3106 06 10	16	16	42	.018
8	10	3106 08 10	16	16	42	.020
8	12	3106 08 12	19	19	50.5	.031
10	12	3106 10 12	19	19	50.5	.022
12	14	3106 12 14	22	22	56	.024

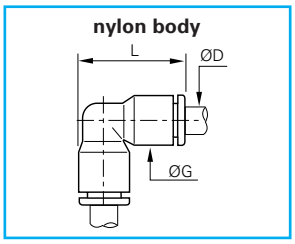
3106 converters — metric to fractional inch

nylon body



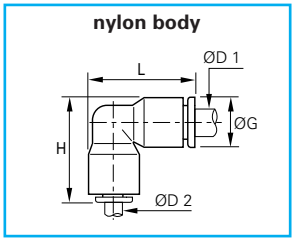
ØD1	ØD2		G in	L in	oz
6mm	1/4	3106 06 56	.43	1.18	.14
3/8	10mm	3106 60 10	.78	1.99	.40
12mm	1/2	3106 12 62	.87	2.25	.95

3102 union elbow — fractional inch tube to tube



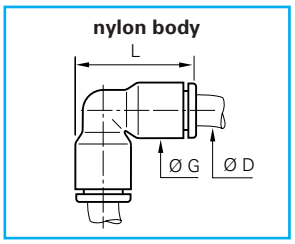
ØD in		G in	L in	oz
1/8	3102 53 00	.33	.71	.11
5/32	3102 04 00	.33	.75	.07
3/16	3102 55 00	.43	1.07	.55
1/4	3102 56 00	.43	.93	.15
5/16	3102 08 00	.53	1.16	.25
3/8	3102 60 00	.63	1.33	.41
1/2	3102 62 00	.87	1.38	.65

3102 unequal union elbow — fractional inch tube to tube



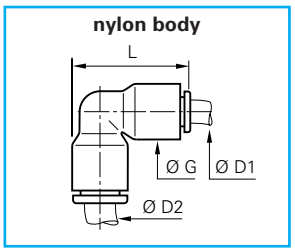
ØD1 in	ØD2 in		G in	H in	L in	oz
1/8	1/4	3102 53 56	.43	.93	.93	.20
5/32	1/4	3102 04 56	.43	.93	.93	.25
3/8	1/4	3102 60 56	.63	1.30	1.33	.50
3/8	1/2	3102 60 62	.87	1.81	1.81	.65

3102 union elbow — metric tube to tube



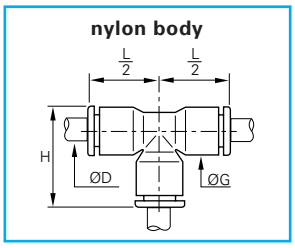
ØD mm		G mm	L mm	kg
4	3102 04 00	8.5	19	.002
6	3102 06 00	10.5	22.5	.004
8	3102 08 00	13.5	29.5	.007
10	3102 10 00	16	34.5	.015
12	3102 12 00	19	40.5	.017
14	3102 14 00	22	46.5	.045

3102 unequal union elbow — metric tube to tube



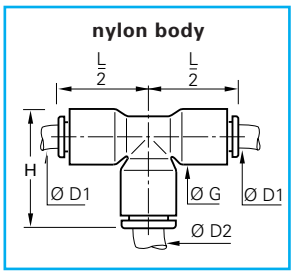
ØD1 mm	ØD2 mm		G mm	L mm	kg
4	6	3102 04 06	10.5	22.5	.004
6	8	3102 06 08	13.5	29.5	.007
8	10	3102 08 10	16	34.5	.015
10	12	3102 10 12	19	40.5	.017

3104 tee — fractional inch tube to tube to tube



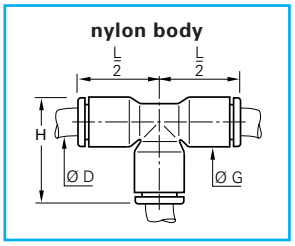
ØD in		G in	H in	L/2 in	oz
1/8	3104 53 00	.33	.75	.57	.15
5/32	3104 04 00	.33	.75	.57	.14
3/16	3104 55 00	.43	1.07	.85	.58
1/4	3104 56 00	.43	.89	.93	.22
5/16	3104 08 00	.53	1.16	.91	.32
3/8	3104 60 00	.63	1.34	1.02	.64
1/2	3104 62 00	.87	1.81	1.38	1.74

3104 unequal tee — fractional inch tube to tube to tube



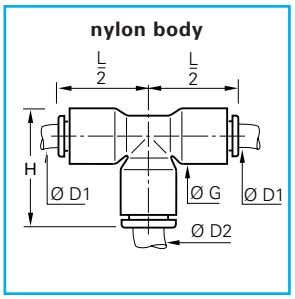
ØD1 in	ØD2 in		G in	H in	L/2 in	oz
1/8	1/4	3104 53 56	.43	.93	.71	.20
5/32	1/4	3104 04 56	.43	.93	.71	.28
1/4	1/8	3104 56 53	.43	.93	.73	.35
1/4	5/32	3104 56 04	.43	.93	.73	.40
1/4	3/8	3104 56 60	.63	1.32	.96	.60
3/8	1/4	3104 60 56	.63	1.28	1.00	.65
3/8	1/2	3104 60 62	.87	1.81	1.38	.70
1/2	1/4	3104 62 56	.87	1.81	1.38	.73
1/2	3/8	3104 62 60	.87	1.81	1.38	.75

3104 tee — metric tube to tube to tube



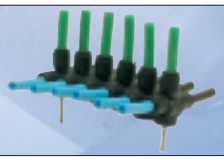
ØD mm		G mm	H mm	L/2 mm	kg
3	3104 03 00	8.5	19	14.5	.004
4	3104 04 00	8.5	19	14.5	.004
6	3104 06 00	10.5	22.5	17.5	.006
8	3104 08 00	13.5	29.5	23	.009
10	3104 10 00	16	34.5	26.5	.014
12	3104 12 00	19	40.5	31	.019
14	3104 14 00	22	46	35.5	.067

3104 unequal tee — metric tube to tube to tube



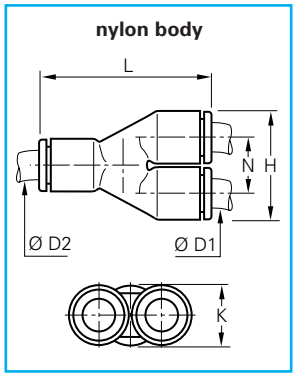
ØD1 mm	ØD2 mm		G mm	H mm	L/2 mm	kg
4	6	3104 04 06	10.5	22.5	17.5	.006
6	4	3104 06 04	10.5	22.5	17.5	.006
6	8	3104 06 08	13.5	29.5	23	.009
8	6	3104 08 06	13.5	29.5	23	.009
8	10	3104 08 10	16	34.5	26.5	.014
10	8	3104 10 08	16	34.5	26.5	.019
10	12	3104 10 12	19	40.5	31	.019
12	10	3104 12 10	19	40.5	31	.019
14	8	3104 14 08	22	46	35.5	.034

LF3000® tube to tube fittings can be fitted in multiple strips by the use of Legris tube clips – please refer to page A44.



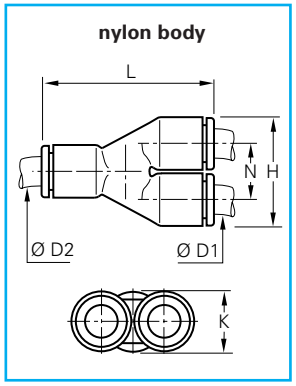
union "Y"– tube to tube

3140 "Y" — fractional inch tube to tube



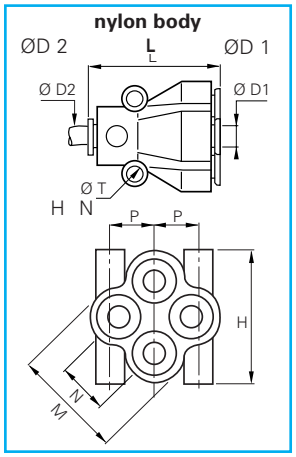
ØD1 in	ØD2 in		H in	K in	L in	N in	oz
1/8	1/8	3140 53 00	.69	.33	1.12	.35	.16
5/32	5/32	3140 04 00	.69	.34	1.12	.35	.14
1/4	1/4	3140 56 00	.87	.43	1.42	.45	.24
5/16	5/16	3140 08 00	1.10	.53	1.77	.57	.46
3/8	3/8	3140 60 00	1.30	.63	2.09	.67	.59
1/8	1/4	3140 53 56	.87	.43	1.42	.45	.20
5/32	1/4	3140 04 56	.87	.43	1.42	.45	.43
1/4	3/8	3140 56 60	1.30	.63	1.31	.67	.50
3/8	1/2	3140 60 62	1.30	.63	2.09	.67	.59

3140 "Y" — metric tube to tube



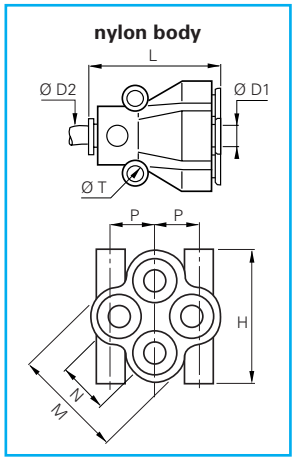
ØD1 mm	ØD2 mm		H mm	K mm	L mm	N mm	kg
4	4	3140 04 00	17.5	8.5	28.5	9	.004
6	6	3140 06 00	21.5	10.5	35	11	.007
8	8	3140 08 00	28	13.5	45	14.5	.013
10	10	3140 10 00	33	16	53	17	.020
12	12	3140 12 00	39	19	57	17	.025
4	6	3140 04 06	17.5	10.5	33	9	.005
6	8	3140 06 08	22.5	13.5	41	11.5	.019
8	10	3140 08 10	28	16	47	14.5	.015
10	12	3140 10 12	33	19	57	17	.022

3144 double "Y" — fractional inch tube to tube



ØD1 in	ØD2 in		H in	L in	M in	N in	P in	T in	oz
5/32	5/32	3144 04 04	1.00	1.20	.83	.39	.34	.15	.95
5/32	1/4	3144 04 56	1.00	1.18	.83	.39	.34	.15	.95

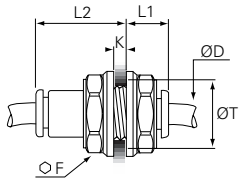
3144 multiple "Y" — metric tube to tube



ØD1 mm	ØD2 mm		H mm	L mm	M mm	N mm	P mm	T mm	kg
4	4	3144 04 04	25.5	30.5	21	10	8.5	3.7	.027
6	6	3144 06 06	31.5	37.5	26.5	12	10	3.7	.043
4	6	3144 04 06	25.5	30.5	21	10	8.5	3.7	.027
6	8	3144 06 08	31.5	38	26.5	12	10	3.7	.045

3116 bulkhead union — tube to tube

nylon body



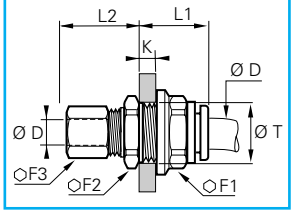
ØD in	fractional inch	F mm	K max in	L1 in	L2 in	T min in	oz	Max Torque
1/8	3116 53 00	13	.22	.37	.61	.41	.64	11 lb. in.
5/32	3116 04 00	13	.22	.59	.39	.41	.67	11 lb. in.
1/4	3116 56 00	16	.35	.37	.81	.53	.24	13 lb. in.
5/16	3116 08 00	18	.57	.98	.53	.61	1.16	15 lb. in.
3/8	3116 60 00	22	.57	.51	1.18	.73	.65	22 lb. in.
1/2	3116 62 00	29	.81	.67	1.61	1.00	3.60	

ØD mm	metric	F mm	K max mm	L1 mm	L2 mm	T min mm	kg
4	3116 04 00	13	5.5	15	10	10.5	.018
6	3116 06 00	15	8.5	18	10.5	12.5	.029
8	3116 08 00	18	14.5	25	13.5	15.5	.037
10	3116 10 00	22	14.5	27.5	15.5	18.5	.084
12	3116 12 00	26	18.5	33	18	22.5	.102
14	3116 14 00	29	20.5	37.5	20.5	25.5	.135

The plastic nut is fitted with an "O" ring to optimize sealing in relation to the panel.

3146 mixed bulkhead connector — metric tube

nylon body and nickel-plated brass

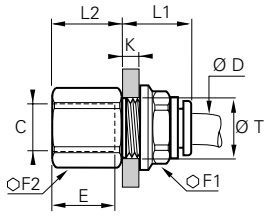


ØD mm		F1 mm	F2 mm	F3 mm	K max mm	L1 mm	L2 mm	T min mm	kg
4	3146 04 00	13	13	10	7	17.5	17.5	10.5	.021
6	3146 06 00	15	17	13	8	19	18	12.5	.030
8	3146 08 00	18	19	14	8	20.5	20.5	15.5	.038
10	3146 10 00	22	22	19	8.5	23	24.5	18.5	.071
12	3146 12 00	26	25	22	8.5	27	25	22.5	.086
14	3146 14 00	29	29	24	10.5	27	27	25.5	.125

The plastic nut is fitted with an "O" ring to optimize sealing in relation to the panel.

3036/3136 female bulkhead connector — tube to NPT or BSPP

nylon body and nickel-plated brass

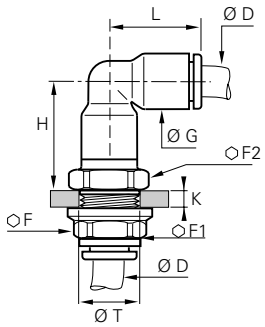


ØD in	C NPT	fractional inch	E in	F1 mm	F2 mm	K max in	L1 in	L2 in	T min in	oz
1/8	1/8	3036 53 11	.37	13	13	.28	.41	.73	.41	.75
5/32	1/8	3036 04 11	.37	13	13	.28	.41	.73	.41	.88
5/32	1/4	3036 04 14	.55	13	16	.32	.41	.73	.41	.99
1/4	1/8	3036 56 11	.37	18	17	.32	.55	.96	.61	1.23
1/4	1/4	3036 56 14	.55	18	17	.32	.55	1.18	.61	1.41
3/8	1/4	3036 60 14	.55	22	22	.33	.57	.89	.73	2.57
3/8	3/8	3036 60 18	.55	22	22	.33	.57	.89	.73	2.65

mm	BSPP	metric	mm	mm	mm	mm	mm	mm	mm	kg
4	G1/8	3136 04 10	9.5	13	13	7	17.5	10.5	10.5	.025
4	G1/4	3136 04 13	13.5	16	13	7	17.5	14.5	10.5	.028
6	G1/8	3136 06 10	9.5	15	13	8	19	10.5	12.5	.035
6	G1/4	3136 06 13	13.5	17	13	7	19	14.5	12.5	.040
6	G3/8	3136 06 17	12	15	22	8	19	16	12.5	.041
8	G1/8	3136 08 10	9.5	17	18	8	20.5	10.5	15.5	.048
8	G1/4	3136 08 13	13.5	17	18	8	20.5	14.5	15.5	.055
10	G3/8	3136 10 17	14	22	22	8.5	23	16	20.5	.073
12	G3/8	3136 12 17	14	26	25	8.5	27	16	22.5	.092
12	G1/2	3136 12 21	18.5	26	26	8.5	27	21.5	22.5	.118

3139 equal bulkhead elbow — tube to tube

nylon body



The body is orientable for positioning purposes

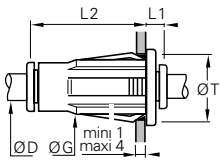
ØD in	fractional inch	F1 mm	F2 mm	G in	H in	K max in	L in	T min in	oz
1/8	3139 53 00	13	13	.35	.71	.28	.57	.41	.67
5/32	3139 04 00	–	13	.33	.83	.26	.67	.41	.67
1/4	3139 56 00	18	17	.43	.87	.32	.71	.61	.85
5/16	3139 08 00	–	18	.53	1.22	.31	.94	.61	1.23
3/8	3139 60 00	22	22	.63	1.08	.33	1.00	.73	2.80
1/2	3139 62 00	29	27	.87	1.54	.41	1.38	1.00	4.34

mm	metric	mm	mm	mm	mm	mm	mm	kg
4	3139 04 00	13	8.5	21	6.5	17	10.5	.019
6	3139 06 00	15	10.5	24.5	7	19.5	12.5	.024
8	3139 08 00	18	13.5	31	8	24	15.5	.035
10	3139 10 00	22	16	36	8.5	28	18.5	.081
12	3139 12 00	26	19	42	8.5	33	22.5	.123
14	3139 14 00	29	25.5	48	10.5	37.5	25.5	.143

The plastic nut is fitted with an "O" ring to optimize sealing in relation to the panel.

3156 plug-in bulkhead union — fractional inch tube to tube

nylon body



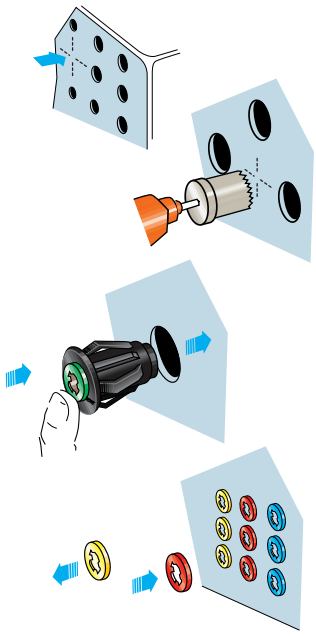
ØD in		G in	L1 in	L2 in	T min in	oz
5/32	3156 04 00	.83	.26	1.08	.62	.25
1/4	3156 56 00	.93	.26	1.24	.75	.41
5/16	3156 58 00	1.02	.30	1.28	.87	.57
3/8	3156 60 00	1.34	.30	1.63	1.12	1.30
1/2	3156 62 00	1.44	.30	1.71	1.25	1.41

Fittings are supplied complete with collar.
One removal tool comes in each 3156 box.

To facilitate color coding, please refer to page A45 for details of Legris colored release caps.

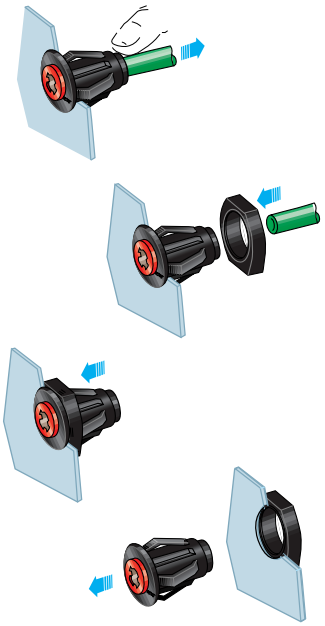
installation

1. mark out the fixing hole.
2. make hole in panel.
3. simply push the fitting into place.
4. to complete the installation.
5. to identify circuits simply remove the black release button and replace with colored one.

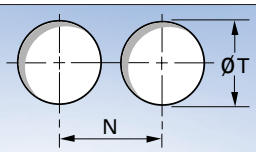


removal

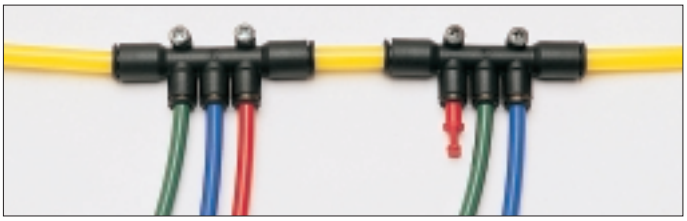
1. disconnect the tube.
2. put the removal tool on the fitting.
3. push the tool over the fitting to the bulkhead face.
4. simply remove the fitting.



Minimum distance between fittings.
Diameter of fixing hole.



ØD		5/32	1/4	5/16	3/8	1/2
ØT	inches	5/8"	3/4"	7/8"	1 1/8"	1 1/4"
	mm	15.87	19.05	22.22	28.57	31.75
N	in	.89	1.00	1.08	1.34	1.50
tolerance		ØT : +0.3 -0.1				



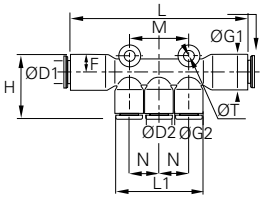
In pneumatic installations manifolding is a popular way of preparing the installation of pneumatic equipment.

Legris multiple tees, a recent addition to the LF3000® range, provide the ideal way of creating this manifold and with the careful use of other components in the range allow the system to be plumbed in as it is built. Care has been taken to ensure that flow through the main body of the manifold is adequate to feed the secondary lines.

Incorporation of the multiple tee can enable a very cost effective circuit design to be achieved.

3304 multiple tee with mounting holes

nylon body



ØD1 in	ØD2 in	fractional inch	G1 in	G2 in	H in	L1 in	L in	N in	M in	T in	oz
1/4	5/32	3304 56 54*			1.04	1.42	2.76	.43		.13	.81
1/4	1/4	3304 56 56*			1.18	1.86	3.12	.55		.17	1.00
5/16	5/32	3304 08 04			.96		2.91	.45		.17	1.09
3/8	1/4	3304 60 56	.63	.53	1.34		3.21	.61	1.22	.17	2.05

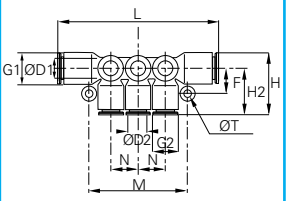
*collet technology

ØD1 mm	ØD2 mm	metric	H mm	L1 mm	L mm	N mm	T mm	kg
6	4	3304 06 04	24.5	23	74	11.5	4.2	.023
8	4	3304 08 04	24.5	23	74	11.5	4.2	.031
8	6	3304 08 06	24.5	23	74	11.5	4.2	.033
10	6	3304 10 06	36	29	81	14.5	4.2	.058
10	8	3304 10 08	36	29	81	14.5	4.2	.060

ØT = I.D. of fixing hole

3306 double multiple tee with mounting holes

nylon body

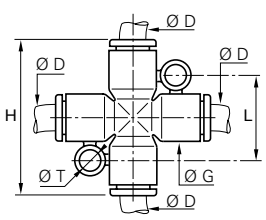


ØD1 in	ØD2 in	fractional inch	F in	G1 in	G2 in	H in	L in	N in	M in	T in	oz
1/4	5/32	3306 56 04	.45	.53	.43	.73	2.84	.45	1.69	.17	.85
1/4	1/4	3306 56 56	.45	.53	.43	.73	2.84	.45	1.69	.17	1.25
5/16	5/32	3306 08 04	.45	.53	.43	.77	2.87	.45	1.69	.17	1.13
3/8	1/4	3306 60 56	.51	.63	.53	.91	3.31	.57	2.05	.17	2.30

mm	mm	metric	mm	mm	mm	H2 mm	mm	mm	mm	mm	kg
6	4	3306 06 04	11.5	13.5	11	18.5	72	11.5	43	4.2	.020
8	4	3306 08 04	11.5	13.5	11	18.5	73	11.5	43	4.2	.032
8	6	3306 08 06	11.5	13.5	11	18.5	73	11.5	43	4.2	.050
10	6	3306 10 06	13	16	13.5	23	84	14.5	52	4.2	.065
10	8	3306 10 08	13	16	13.5	23.5	84	14.5	52	4.2	.070

3107 equal cross

nylon body



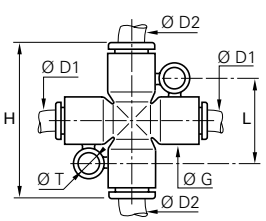
ØD in	fractional inch	G in	H in	L in	T in	oz
5/32	3107 04 00	.43	1.42	.79	.17	.35
1/4	3107 56 00	.43	1.40	.79	.17	.35
5/16	3107 08 00	.53	1.81	.89	.17	.71

mm	metric	mm	mm	mm	mm	kg
4	3107 04 00	11	36	20	4.2	.010
6	3107 06 00	11	36	20	4.2	.010
8	3107 08 00	13.5	46	22.5	4.2	.020

ØT = I.D. of fixing hole

3107 unequal cross — metric

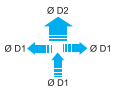
nylon body



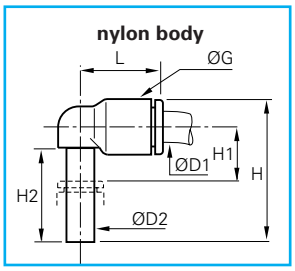
ØD1 mm	ØD2 mm		G mm	H mm	L mm	T mm	kg
4	6	3107 04 06	11	36	20	4.2	.010
6	8	3107 06 08	13.5	46	22.5	4.2	.020
4	6	3107 06 04*	11	36	20	4.2	.010
6	8	3107 08 06*	13.5	46	22.5	4.2	.020

This model provides 2 outlets ØD1 of equal diameters and 2 outlets ØD2 of a different diameter.

* This model provides 3 outlets ØD1 of equal diameters and 1 outlet ØD2 of a different diameter.
ØT = I.D. of fixing hole

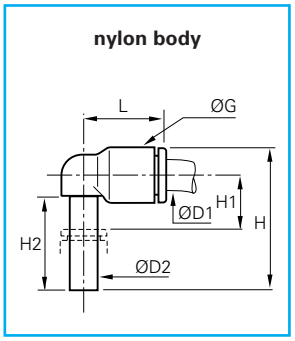


3182 plug-in elbow — fractional inch



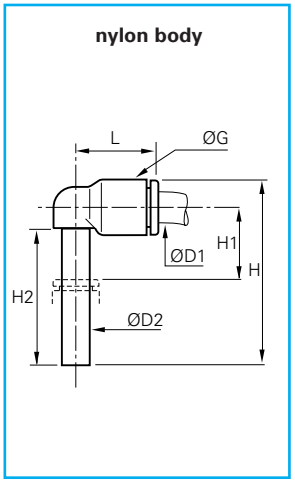
ØD1 in	ØD2 in		G in	H in	H1 in	H2 in	L in	oz
1/8	1/8	3182 53 00	.33	.92	.31	.64	.57	.08
5/32	5/32	3182 04 00	.33	.91	.24	.61	.55	.11
5/32	1/4	3182 04 56	.43	1.08	.30	.71	.71	.20
1/4	1/4	3182 56 00	.43	1.20	.43	.83	.73	.11
1/4	3/8	3182 56 60	.63	1.52	.35	.96	.98	.14
5/16	5/16	3182 08 00	.53	1.32	.32	.85	.91	.14
3/8	3/8	3182 60 00	.63	1.52	.35	.96	1.02	.32
1/2	1/2	3182 62 00	.87	2.00	.51	1.12	1.38	.32

3182 plug-in elbow — metric



ØD1 mm	ØD2 mm		G mm	H mm	H1 mm	H2 mm	L mm	kg
4	4	3182 04 00	8.5	23	6	15.5	14	.003
6	6	3182 06 00	10.5	26.5	7	17	16	.003
8	8	3182 08 00	13.5	33.5	8	21.5	23	.004
10	10	3182 10 00	16	39	9.5	24.5	23.5	.009
12	12	3182 12 00	19	44.5	10	27.5	31	.012
4	6	3182 04 06	10.5	26.5	7	17	16	.003
6	4	3182 06 04	10.5	24.5	7	15.5	16	.003
6	8	3182 06 08	13.5	33.5	8	21.5	22	.004
8	10	3182 08 10	16	39	9.5	24.5	26.5	.009
10	12	3182 10 12	19	44.5	10	27.5	31	.012

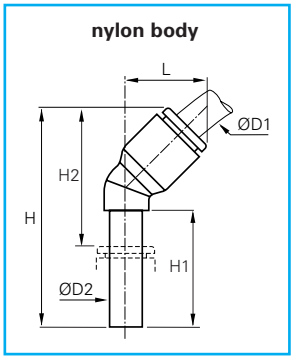
3184 extended plug-in elbow



ØD1 in	ØD2 in	fractional inch	G in	H in	H1 in	H2 in	L in	oz
1/8	1/8	3184 53 00	.33	1.26	.65	.98	.57	.18
5/32	5/32	3184 04 00	.33	1.28	.61	.98	.55	.18
1/4	1/4	3184 56 00	.43	1.56	.77	1.18	.71	.18
5/16	5/16	3184 08 00	.53	1.93	.93	1.46	.91	.21
3/8	3/8	3184 60 00	.63	2.19	1.02	1.63	1.02	.39

mm	mm	metric	mm	mm	mm	mm	mm	kg
4	4	3184 04 00	8.5	32.5	15.5	25	14	.005
6	6	3184 06 00	10.5	38.5	19	29	16	.005
8	8	3184 08 00	13.5	49	23.5	37	23	.006
10	10	3184 10 00	16	56	26.5	41.5	26.5	.011
12	12	3184 12 00	19	62.5	28	45.5	31	.014
4	6	3184 04 06	10.5	38.5	19	29	16	.005
6	8	3184 06 08	13.5	49	23.5	37	23	.006
8	10	3184 08 10	16	56	26.5	41.5	26.5	.011
10	12	3184 10 12	19	62.5	28	45.5	31	.014

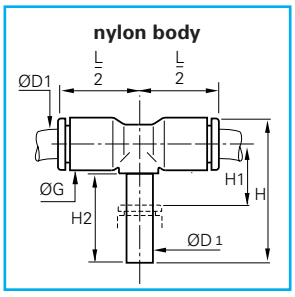
3180 45° plug-in elbow



ØD1 in	ØD2 in	fractional inch	G in	H in	H1 in	H2 in	L in	oz
1/8	1/8	3180 53 00	.33	1.14	.59	.69	.47	.18
5/32	5/32	3180 04 00	.35	1.32	.75	.83	.51	.18
1/4	1/4	3180 56 00	.43	1.44	.71	.87	.57	.18
5/16	5/16	3180 08 00	.53	1.73	.85	1.00	.77	.21
3/8	3/8	3180 60 00	.63	2.00	.96	1.16	.91	.32

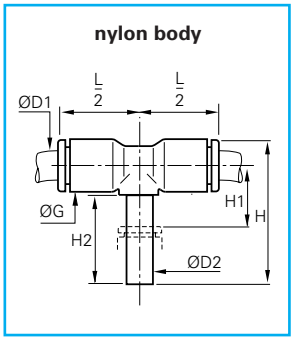
mm	mm	metric	mm	mm	mm	mm	mm	kg
4	4	3180 04 00	9	33.5	19	21	13	.005
6	6	3180 06 00	11	39	21	25	14.5	.005
8	8	3180 08 00	13.5	44	21.5	25.5	19.5	.006
10	10	3180 10 00	16	53	27	32.5	23	.009
12	12	3180 12 00	19	58.5	27.5	34	26.5	.012

3188 plug-in tee — fractional inch



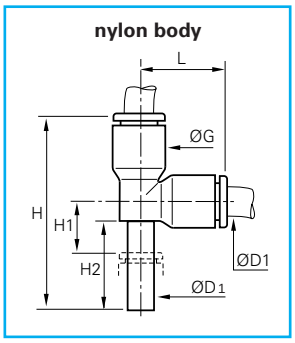
ØD1 in		G in	H in	H1 in	H2 in	L/2 in	oz
5/32	3188 04 00	.33	.91	.24	.61	.57	.18
1/4	3188 56 00	.43	.98	.43	.77	.73	.18
5/16	3188 08 00	.53	1.32	.32	.85	.91	.28

3188 plug-in tee — metric



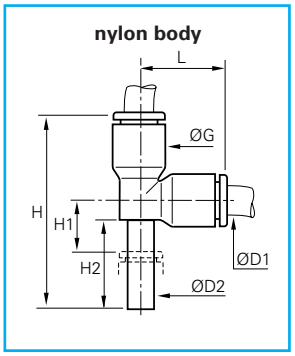
ØD1 mm	ØD2 mm		G mm	H mm	H1 mm	H2 mm	L/2 mm	kg
4	4	3188 04 00	8.5	23	6	15.5	14.5	.005
6	6	3188 06 00	10.5	26.5	7	17	16	.006
8	8	3188 08 00	13.5	33.5	8	21.5	23	.008
10	10	3188 10 00	16	39	9.5	24.5	26.5	.012
12	12	3188 12 00	19	44.5	10	27.5	31	.017
4	6	3188 04 06	10.5	26.5	7	17	16	.006
6	8	3188 06 08	13.5	33.5	8	21.5	23	.007
8	10	3188 08 10	16	39	9.5	24.5	26.5	.011
10	12	3188 10 12	19	44.5	10	27.5	31	.016

3183 plug-in run tee — fractional inch



ØD1 in		G in	H in	H1 in	H2 in	L in	oz
5/32	3183 04 00	.33	1.30	.24	.61	.57	.18
1/4	3183 56 00	.43	1.69	.43	.83	.73	.21
5/16	3183 08 00	.53	1.93	.32	.85	.91	.28

3183 plug-in run tee — metric

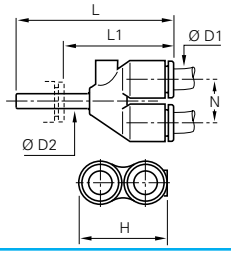


ØD1 mm	ØD2 mm		G mm	H mm	H1 mm	H2 mm	L mm	kg
4	4	3183 04 00	8.5	33	6	15.5	14.5	.005
6	6	3183 06 00	10.5	38.5	7	17	17.5	.006
8	8	3183 08 00	13.5	49	8	21.5	23	.008
10	10	3183 10 00	16	57	10.5	24.5	26.5	.012
12	12	3183 12 00	19	65.5	10.5	27.5	31	.017
4	6	3183 04 06	10.5	38.5	7	17	17.5	.006
6	8	3183 06 08	13.5	48.5	8	21.5	23	.007
8	10	3183 08 10	16	56.5	10.5	24.5	26.5	.011
10	12	3183 10 12	19	65.5	10.5	27.5	31	.016

Legris plug-in fittings also offer solutions for small spaces and system design by the use of cartridges. For details of Legris **Carstick®**, - an innovative, modern cartridge assembly - please refer to page A47.

3142 plug-in "Y" — fractional inch

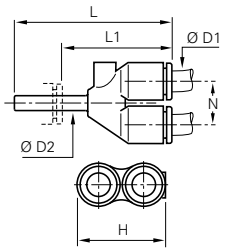
nylon body



ØD1 in	ØD2 in		H in	L in	L1 in	N in	oz
1/8	1/8	3142 53 00	.69	1.36	1.00	.35	.13
5/32	5/32	3142 04 00	.69	1.34	.85	.35	.18
5/16	5/16	3142 08 00	1.10	2.00	1.26	.57	.49

3142 plug-in "Y" — metric

nylon body

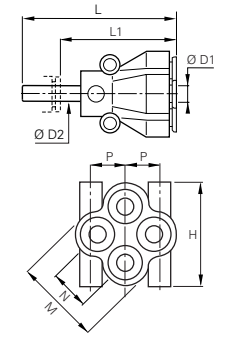


ØD1 mm	ØD2 mm		H mm	L mm	L1 mm	N mm	kg
4	4	3142 04 00	17.5	34	21.5	9	.005
6	6	3142 06 00	21.5	39.5	25.5	11	.008
8	8	3142 08 00	28	50.5	32	14.5	.014
10	10	3142 10 00	33	57.5	36	17	.021
12	12	3142 12 00	39	66	41	20	.026
4	6	3142 04 06	17.5	35.5	21.5	9	.005
6	8	3142 06 08	21.5	44	25.5	11	.008
8	10	3142 08 10	28	53.5	32	14.5	.014
10	12	3142 10 12	33	60	35	17	.021

this model comprises one inlet (ØD2) and two equal outlets (ØD1)

3143 plug-in multiple "Y" — metric

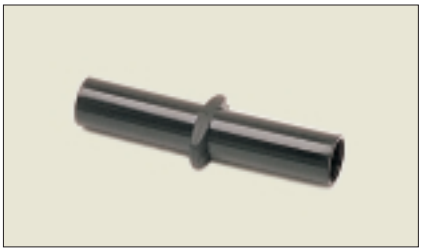
nylon body
aluminum tail piece



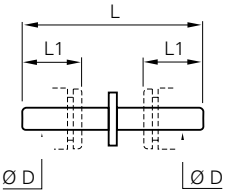
ØD1 in	ØD2 in		H mm	L mm	L1 mm	M mm	N mm	P mm	kg
4	6	3143 04 06	25.5	45	31	21	10	8.5	.027
4	8	3143 04 08	25.5	49.5	31	21	10	8.5	.026
6	8	3143 06 08	31.5	59.5	41	26.5	12	10	.040

this model comprises one inlet (ØD2) and four equal outlets (ØD1)

3120 double male union — fractional inch



nylon body

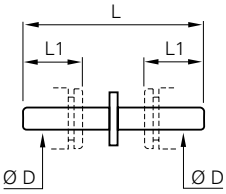


ØD in		L in	L1 in	oz
5/32	3120 04 00	1.36	.47	.04
3/16	3120 55 00 85*	1.24	.57	.12
1/4	3120 56 00	1.52	.57	.03
5/16	3120 08 00	1.61	.73	.07
3/8	3120 60 00	2.03	.81	.07
1/2	3120 62 00 85*	2.13	.86	.46

*nickel-plated brass

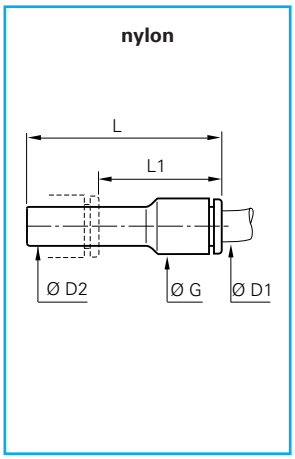
3120 double male union — metric

nylon body



ØD mm		L mm	L1 mm	kg
4	3120 04 00	34.5	12	.001
6	3120 06 00	38.5	14	.001
8	3120 08 00	41	18.5	.002
10	3120 10 00	51.5	20.5	.003
12	3120 12 00	60	24.5	.004
14	3120 14 00	69.5	25.5	.005

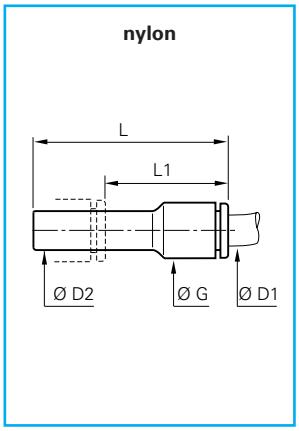
3166 reducer — fractional inch



ØD1 in	ØD2 in		G in	L in	L1 in	oz
1/8	5/32	3166 53 04	.43	1.79	.13	.28
1/8	3/16	3166 53 55	.43	1.79	1.14	.28
1/8	1/4	3166 53 56	.43	1.79	1.22	.29
5/32	3/16	3166 04 55	.34	1.48	.83	.11
5/32	1/4	3166 04 56	.34	1.48	.91	.09
5/32	5/16	3166 04 08	.34	1.48	.75	.14
5/32	3/8	3166 54 60*	.40	1.63	.66	.39
3/16	5/16	3166 55 08	.43	1.79	1.06	.19
3/16	1/4	3166 55 56	.43	1.79	1.22	.22
1/4	5/16	3166 56 08	.43	1.61	.89	.12
1/4	3/8	3166 56 60	.43	1.61	.81	.13
1/4	1/2	3166 56 62	.63	1.97	.98	.30
5/16	3/8	3166 08 60	.53	1.93	1.12	.21
5/16	1/2	3166 08 62	.63	2.01	1.02	.29
3/8	1/2	3166 60 62	.63	2.01	1.04	.31

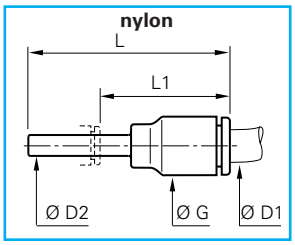
* metal body

3166 reducer — metric



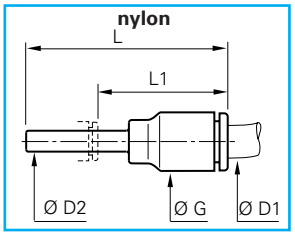
ØD1 mm	ØD2 mm		G mm	L mm	L1 mm	kg
3	4	3166 03 04	8.5	37.5	23.5	.004
4	6	3166 04 06	8.5	37.5	23.5	.004
4	8	3166 04 08	8.5	37.5	19	.004
4	10	3166 04 10	12	44	22.5	.005
6	8	3166 06 08	10.5	37.5	20	.004
6	10	3166 06 10	10.5	38	17.5	.006
6	12	3166 06 12	14.5	46	23	.007
6	14	3166 06 14	14.5	48	23	.008
8	10	3166 08 10	13.5	49	28.5	.009
8	12	3166 08 12	13.5	49	24.5	.010
8	14	3166 08 14	17	48	23	.010
10	12	3166 10 12	21.5	56.5	33.5	.019
10	14	3166 10 14	21.5	58.5	33.5	.020
12	14	3166 12 14	23.5	58.5	33.5	.023

3168 expander — fractional inch



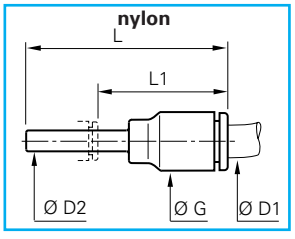
ØD1 in	ØD2 in		G in	L in	L1 in	oz
1/4	1/8	3168 56 53	.43	1.61	1.16	.08
1/4	6mm	3168 56 06	.53	1.75	1.02	.11
1/4	5/32	3168 56 04	.43	1.61	1.14	.11
1/4	3/16	3168 56 55	.81	1.61	1.00	.12
3/8	1/4	3168 60 56	.63	1.58	1.00	.14

3168 expander — metric



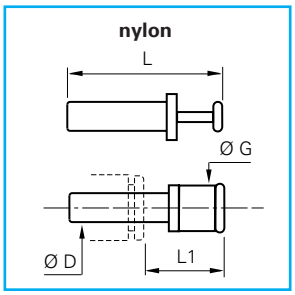
ØD1 mm	ØD2 mm		G mm	L mm	L1 mm	kg
6	4	3168 06 04	10.5	35	23	.003
8	6	3168 08 06	13.5	45	31.5	.005
10	8	3168 10 08	16	42.5	21	.009
12	10	3168 12 10	19	49	24.5	.019

3168 converter — fractional inch to metric



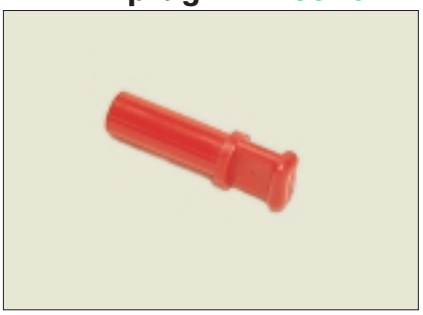
ØD1 mm	ØD2 in		G in	L in	L1 in	kg
4	1/8	3168 04 53	.43	1.61	1.16	.08
8	1/4	3168 08 56	.63	1.58	1.00	.12

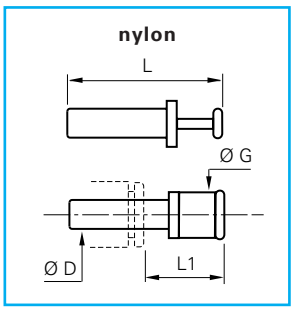
3126 plug — fractional inch



ØD in		G in	L in	L1 in	oz
1/8	3126 53 00	.24	1.30	.85	.05
5/32	3126 04 00	.16	1.18	.61	.04
3/16	3126 55 00	.27	1.36	.79	.06
1/4	3126 56 00	.32	1.44	.87	.06
5/16	3126 08 00	.39	1.38	.69	.07
3/8	3126 60 00	.46	1.67	.87	.10
1/2	3126 62 00	.58	1.91	.85	.18

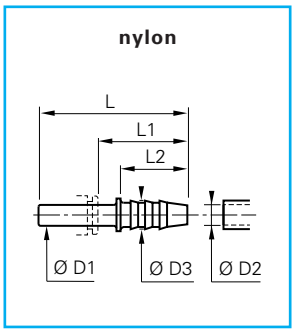
3126 plug — metric





ØD mm		G mm	L mm	L1 mm	kg
3	3126 03 00	6	25	13.5	.001
4	3126 04 00	4	30	15.5	.001
6	3126 06 00	8	33	16.5	.001
8	3126 08 00	10	33	17.5	.002
10	3126 10 00	12	42	21	.003
12	3126 12 00	14	45	22	.004
14	3126 14 00	16	49	23.5	.005

3122 barbed connector — fractional inch

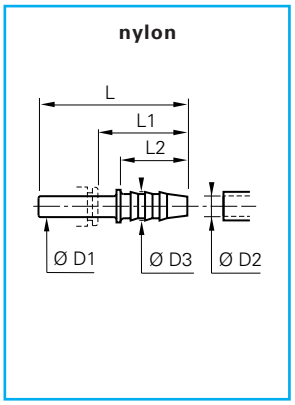


ØD1 in	ØD2 in	ØD3 in		L in	L1 in	L2 in	oz
5/32	.12	.20	3122 04 53	1.46	.98	.67	.11
5/32	.20	.28	3122 04 05	1.46	.98	.67	.11
1/4	3/16		3122 56 55*	1.65	1.00		.21
5/16	.25	.34	3122 08 56	1.55	.83	.67	.04
5/16	.32	.39	3122 08 08	1.75	1.02	.87	.04
3/8	.32	.39	3122 60 08	1.97	1.16	.87	.11

nickel-plated brass

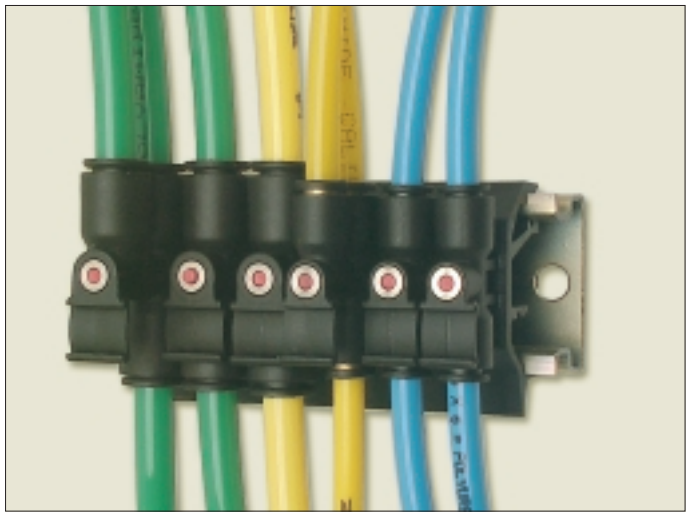
dimensions for ØD2 are I.D. of the tube.

3122 barbed connector — metric



ØD1 mm	ØD2 mm	ØD3 mm		L mm	L1 mm	L2 mm	kg
4	3.2	5	3122 04 53	37	25	17	.002
4	5	7	3122 04 05	37	25	17	.003
6	5	7	3122 06 05	39	25	17	.004
8	6.3	8.5	3122 08 56	39.5	21	17	.005
8	8	10	3122 08 08	44.5	26	22	.005
10	6.3	8	3122 10 56	45	24.5	17	.005
10	8	10	3122 10 08	50	29.5	22	.006
12	8	10	3122 12 08	50	26	22	.008
12	10	12	3122 12 10	48.5	25.5	22.5	.014
12	12.5	14.5	3122 12 62	57	34	22.5	.019
14	12.5	14.5	3122 14 62	59.5	34.5	22.5	.022
14	14	16	3122 14 14*	59.5	34.5	22.5	.022

nickel-plated brass

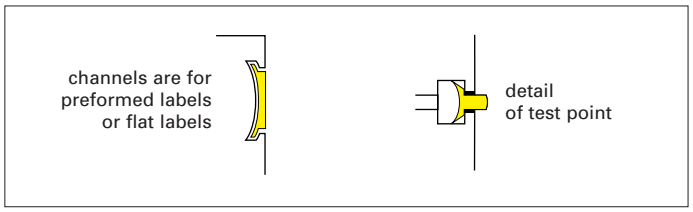


These components are similar in principle to the electrical connectors found in control panels and used to rationalize cabling and trouble shooting.

Used alongside electrical connectors Legris DIN rail connectors provide similar facilities for pneumatic pipework, and are mounted on the same rail profile which allows electrics and pneumatics to run side by side. All tube connections are Legris push-in fittings for plastic tubing.

identification and trouble shooting

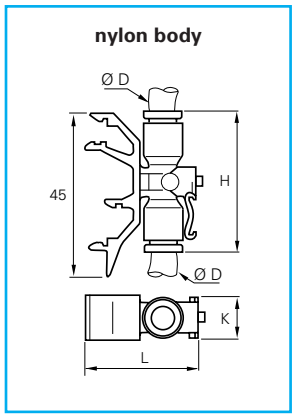
Tube identification
Channels or slots for labels are to be found on the front faces of these connectors which allows air line tubes to be coded and identified to assist in trouble shooting.



Test point facility
Being able to detect the presence of air is an important consideration when maintaining pneumatic control systems.

Legris DIN rail connectors incorporate test points which pop out after being manually depressed, indicating the presence of air in the pipe.

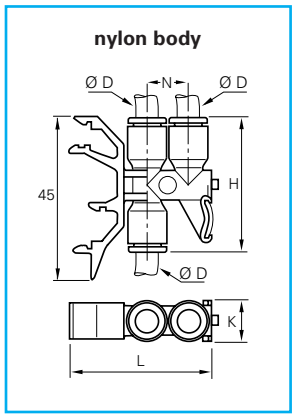
3379 connector for 2 tubes in line



ØD in	fractional inch	H in	K in	L in	oz
5/32	3379 04 00	1.44	.47	1.18	.71
5/16	3379 08 00	1.81	.51	1.28	1.20
mm	**metric**	**mm**	**mm**	**mm**	**kg**
4	3379 04 00	36.5	12	30	.020
6	3379 06 00	36.5	12	30	.026
8	3379 08 00	46	13	32.5	.034

fixed by clipping

3381 connector for 3 tubes



ØD in	fractional inch	H in	K in	L in	N in	oz
5/32	3381 04 00	1.44	.43	1.56	.45	.95
5/16	3381 08 00	1.81	.51	1.75	.57	1.52
mm	**metric**	**mm**	**mm**	**mm**	**mm**	**kg**
4	3381 04 00	36.5	11	39.5	11.5	.027
6	3381 06 00	36.5	11	39.5	11.5	.033
8	3381 08 00	46	13	44.5	14.5	.043

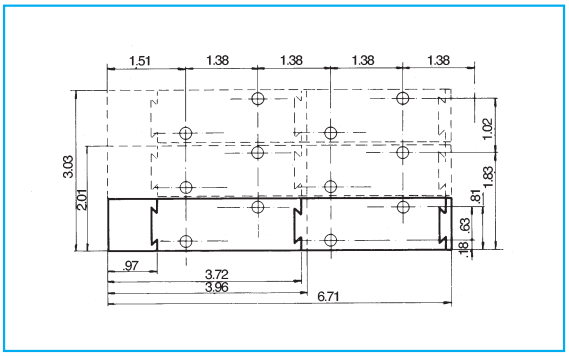
fixed by clipping

Working pressure of models 3379 and 3381 : **15 to145 psi**

Rugged construction, anodized aluminum finish, this manifold offers connection solutions for a wide range of pneumatic applications.

Modular version with threaded or LF3000® push-in connection.

3 connector modules
- 8 connections for 5/32" or 4mm tubing
- 4 connections for 1/4" tubing
- 4 connections for 1/8" NPT

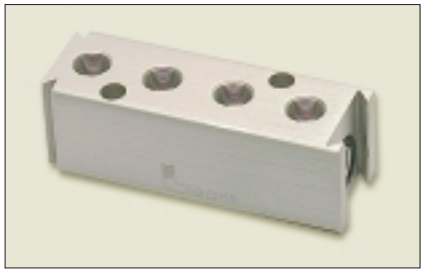


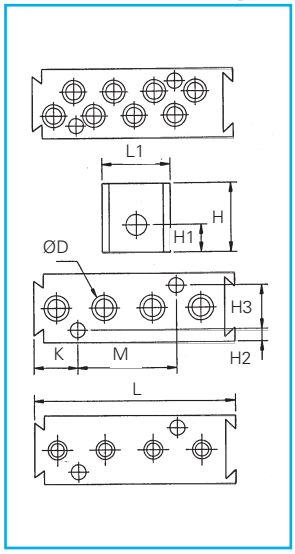
Use 6-32 or M3 x 20 socket head screws for mounting module.

4 port blocks
- single port block - 1/4" NPT side entry tubing
- single port block - 1/4" NPT rear entry connection
- double port block - 3/8" NPT side entry connection
- triple port block - 3/8" NPT side entry connection1 blanking end

3 connector modules
- 8 Monobloc for 5/32" or 4mm tubing
- 4 connections for 1/4" tubing
- 4 connections for 1/8" NPT

3301 manifold module — threaded or push-in

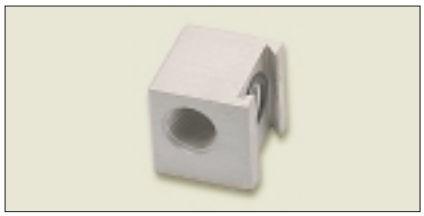


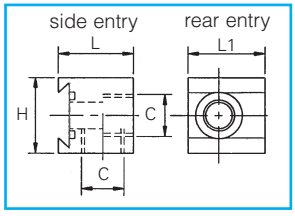


ØD fractional incl		H in	H1 in	L in	L1 in	K in	M in	H2 in	H3 in	oz
5/32 or 4mm	3301 54 00	.98	.39	2.89	.98	.68	1.38	.18	.63	4.04
1/4	3301 56 00	.98	.39	2.89	.98	.68	1.38	.18	.63	4.04

		H in	H1 in	L in	L1 in	L2 in	W in	W1 in	W2 in	oz
1/8	3301 07 11	.98	.39	2.89	.68	1.38	.98	.18	.63	3.24

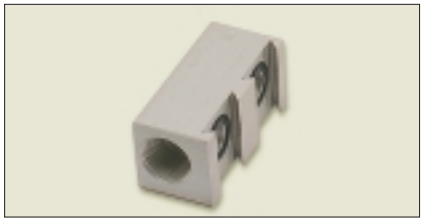
3302 01 threaded entry single port block

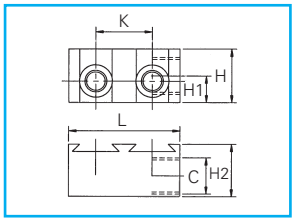




C NPT			L in	L1 in	H in	oz
1/4	3302 01 14	Side entry thread	.97	.98	.98	1.11
1/4	3302 01 14 01	Rear entry thread	.97	.98	.98	1.11

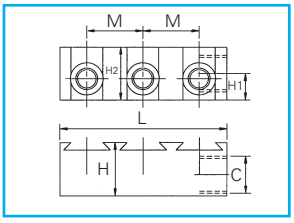
3302 02 double port block — with 3/8" NPT side entry





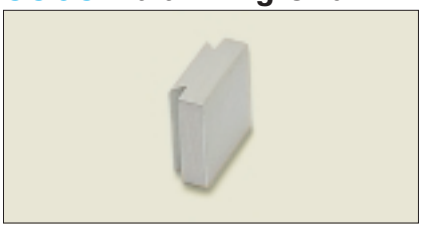
C NPT		H in	H1 in	H2 in	L in	K in	oz
3/8	3302 02 18	.98	.49	.97	2.01	1.02	2.16

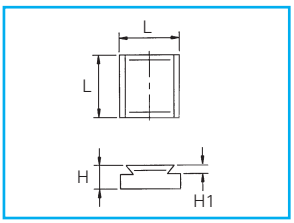
3302 03 triple port block — with 3/8" NPT side entry



C NPT		H in	H1 in	H2 in	L in	M in	oz
3/8	3302 03 18	.97	.49	.98	3.03	1.02	3.31

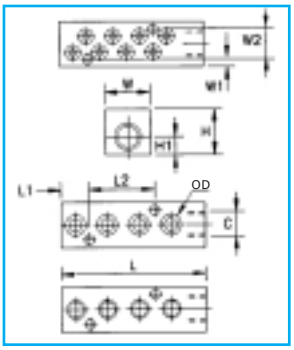
3303 blanking end





	L in	H in	H1 in	kg
3303 00 01	.98	.37	.14	.56

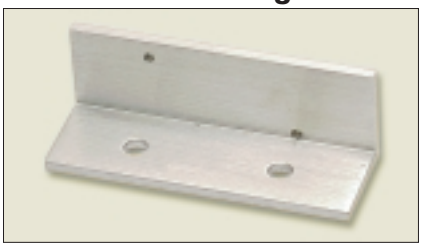
3305 monobloc manifold with threaded or LF3000® push-to-connect ports — fractional inch

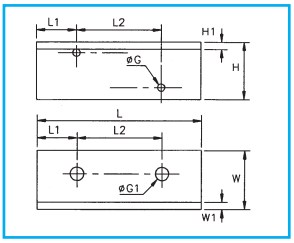


ØD in	C NPT		H in	H1 in	L in	L1 in	L2 in
5/32" O.D.	1/4	3305 54 14	.98	.39	3.15	.62	1.38
1/4" O.D.	1/4	3305 56 14	.98	.39	3.15	.62	1.38
1/8" NPT	1/4	3305 11 14	.98	.39	3.15	.62	1.38

		W in	W1 in	W2 in	oz
1/4	3305 54 14	.98	.18	.63	4.5
1/4	3305 56 14	.98	.18	.63	4.4
1/4	3305 11 14	.98	.18	.63	4.2

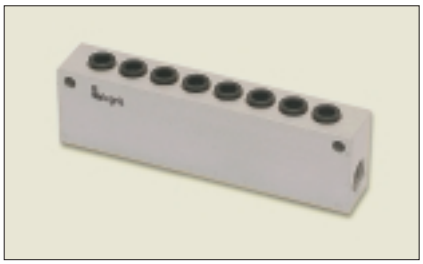
3303 mounting bracket

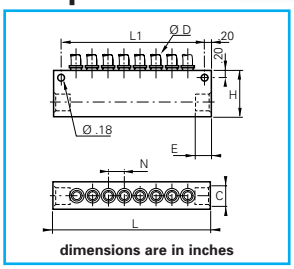




G in	G1 in		H in	H1 in	L in	L1 in	L2 in	W in	W1 in	oz
.12	.22	3303 00 02	.98	.12	2.87	.75	1.38	.98	.12	1.1

3315 manifold with LF3000® push-to-connect ports — fractional inch

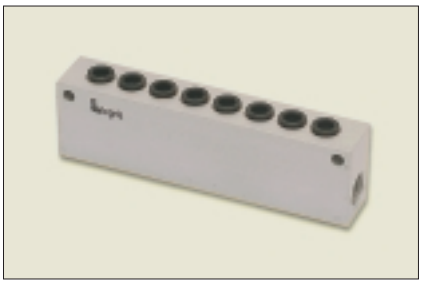


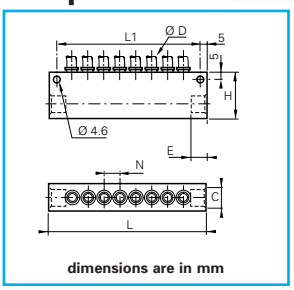


dimensions are in inches

ØD in	C NPT		Number of outlets	E in	H in	L in	L1 in	N in	oz
1/8	1/4	3315 53 14	8	.55	1.30	4.49	4.09	.45	5.75
5/32	1/4	3315 04 14	8	.55	1.30	4.49	4.09	.45	5.75
1/4	1/4	3315 56 14	8	.55	1.30	4.92	4.53	.50	5.82
3/8	3/8	3315 60 18	6	—	1.57	5.73	5.33	.67	5.82

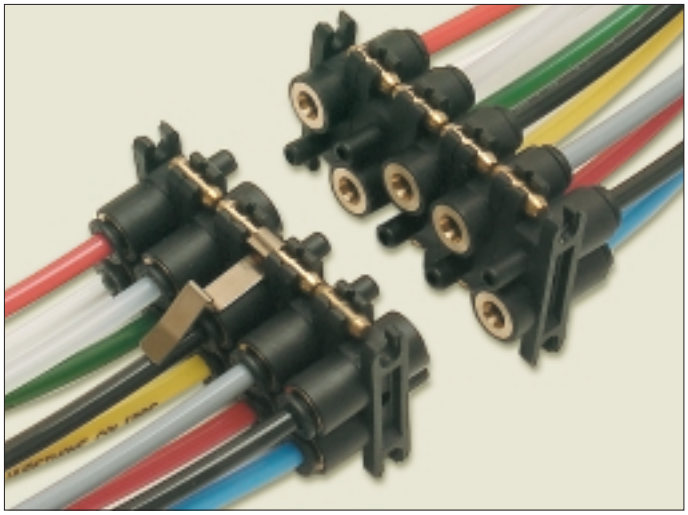
3310 manifold with LF3000® push-to-connect ports — metric





dimensions are in mm

ØD mm	C BSPP		Number of outlets	E mm	H mm	L mm	L1 mm	N mm	kg
4	G1/4	3310 04 13	8	10	33	114	104	11.5	.163
6	G1/4	3310 06 13	8	10	33	114	104	12.5	.163
8	G3/8	3310 08 17	6	12	33	114	104	15	.163
10	G1/2	3310 10 21	6	16	48	145.5	135.5	17.1	.207
12	G1/2	3310 12 21	6	16	45	158	148	20.5	.225



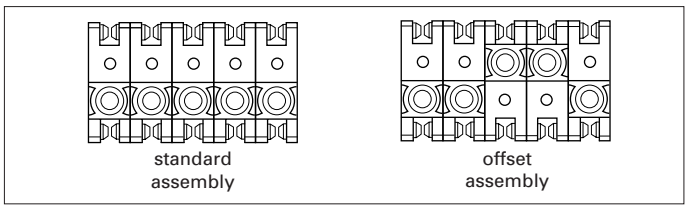
The modular construction of this component allows a number of pneumatic tubes to be connected or separated with a simple plug-in action.

A series of male/female connectors provide a leakproof joint. Units of any length can be constructed and all connections are for 5/32" (4 mm) O.D. tube.

The two common uses for this product are:

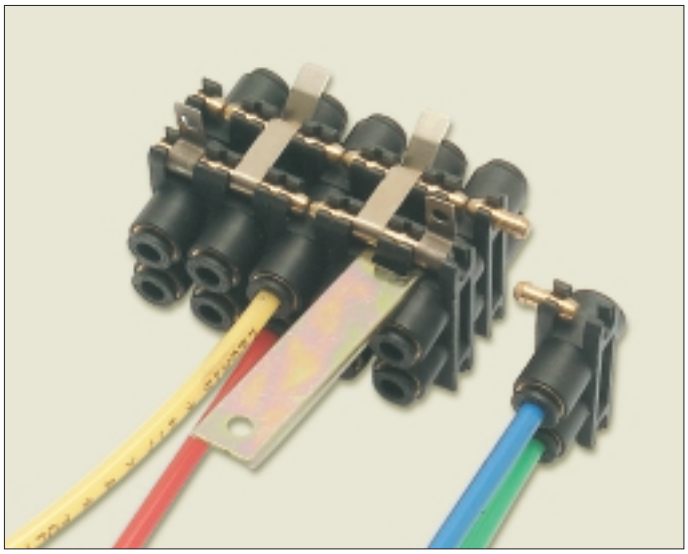
1. Fixing one half to a panel, machine or bulkhead and allowing the floating half to be assembled or disconnected to change a machine or sequence. Often when machines are transported air lines are separated and this connection provides a foolproof method of reconnection on site.

2. Using the connector in an in-line mode for joining long lengths of pipe-work which need to be disconnected periodically. It is advisable to limit the unit length to five connectors as illustrated in the photograph below.



personalization of connector

By reversing the slices of the module during their assembly it is possible to "offset" units so that they cannot be mixed or inadvertently connected in the wrong order.



components used in the module assembly

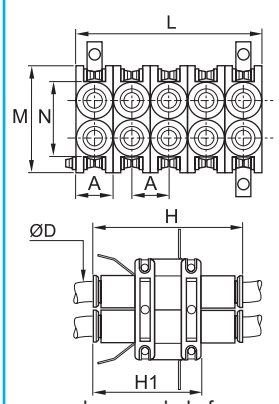
The module is constructed from a number of symmetrical components each of which must mate with another similar component in the other half of the coupling.

When fully assembled one box of the modular plug-in connector provides 20 x 4mm tube connections.
10 in one half and 10 mating ones in the other.

The complete box contains:
10 units each containing two 5/32" (4mm) connections
20 joining pins and 4 end pins
4 mounting brackets
4 coupling clips
1 dismantling tool

3300 modular plug-in connectors

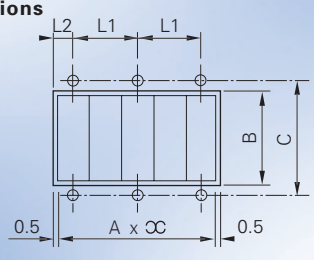
nylon body



clearance hole for Ø3mm screw

ØD		A mm	B mm	C mm	H mm	H1 mm	L mm	L1 mm	L2 mm	M mm	N mm	kg
5/32, 4mm	3300 04 00	11	21	40	40.5	29.5	55	22	6	32	20	0.106
6mm	3300 06 00	14	28	47	48	38.5	70	28	7.5	39	27.5	0.106
5/16, 8mm	3300 08 00	14	28	47	50	39	70	28	7.5	39	27.5	0.106

fixing dimensions



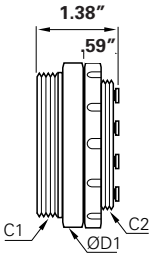
LF3000® multi-connector

The Legris multi-connector is designed for simultaneous connection and disconnection of 7 and 12 tubes.
Its LF3000® technology and performance makes it easy to use :
- instant connection and disconnection, without tools,
- full flow, without restriction.

In order to facilitate the installation, each tube outlet is numbered. A location pin avoids assembly errors and a cap helps to guide the tubes and to protect connections. To cover all users' needs, this range can also be used for bulkhead connections. Please consult us for customized versions, including connectors with integral shut-off valves and metric sizes.

3320 male screw body — fractional inch

plastic

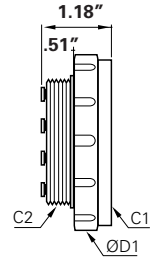


ØD in	number of outlets		C1	C2	ØD1 in
1/8	7	3320 53 00 07	M46x1.5	M40x1.5	1.97
1/8	12	3320 53 00 12	M65x1.5	M58x1.5	2.76
5/32	7	3320 04 00 07	M46x1.5	M40x1.5	1.97
5/32	12	3320 04 00 12	M65x1.5	M58x1.5	2.76
1/4	7	3320 56 00 07	M65x1.5	M58x1.5	2.76
1/4	12	3320 56 00 12	M72x1.5	M65x1.5	2.95
3/8	7	3320 60 00 07	M65x1.5	M58x1.5	2.76

The number of male body outlets must correspond to the same number of outlets on the female body. E.g. Model 3320 04 00 07 must only be connected to model 3321 04 00 07.

3321 female screw body — fractional inch

plastic

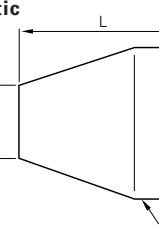


ØD in	number of outlets		C1	C2	ØD1 in
1/8	7	3321 53 00 07	M46x1.5	M40x1.5	2.17
1/8	12	3321 53 00 12	M65x1.5	M58x1.5	2.95
5/32	7	3321 04 00 07	M46x1.5	M40x1.5	2.17
5/32	12	3321 04 00 12	M65x1.5	M58x1.5	2.95
1/4	7	3321 56 00 07	M65x1.5	M58x1.5	2.95
1/4	12	3321 56 00 12	M72x1.5	M65x1.5	2.95
3/8	7	3321 60 00 07	M65x1.5	M58x1.5	2.95

The number of female body outlets must correspond to the same number of outlets on the male body. E.g. Model 3320 04 00 07 must only be connected to model 3321 04 00 07.

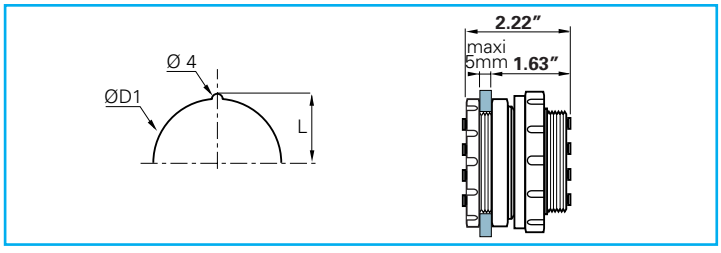
3329 screw cap

plastic



ØD in	number of outlets		C2	G in	L in	ØD1 in
1/8	7	3329 00 02	M40x1.5	1.38	2.17	1.97
1/8	12	3329 00 03	M58x1.5	1.65	2.76	2.76
5/32	7	3329 00 02	M40x1.5	1.38	2.17	1.97
5/32	12	3329 00 03	M58x1.5	1.65	2.76	2.76
1/4	7	3329 00 03	M58x1.5	1.65	2.76	1.97
1/4	12	3329 00 04	M65x1.5	2.01	3.46	2.95
3/8	7	3329 00 03	M58x1.5	1.65	2.76	2.76

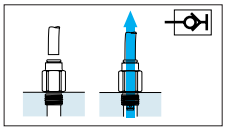
overall dimensions for bulkhead mounting



ØD in	number of outlets	L in	ØD1 in
1/8	7	.83	1.59
1/8	12	1.19	2.30
5/32	7	.83	1.59
5/32	12	1.19	2.30
1/4	7	1.19	2.30
1/4	12	1.32	2.58
3/8	7	1.19	2.30

To complement the LF3000® multi-connector, you will also find a range of Multi bundled tubing on page M17 of the Tubes and Hoses section.

self-sealing fittings

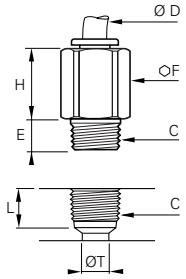


Legris self-sealing fittings enable circuits and machinery to stay under pressure when being checked and maintained. The working process is simple:

- Prevents fluid flow when there is no tube connected.
- Conversely, when connected, the compressed air flow is restored in both directions.

3091 self-sealing male fitting — NPT or BSPT

nickel-plated brass



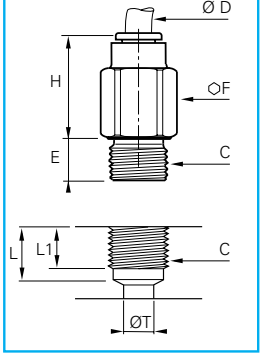
ØD in	C NPT	fractional inch	E in	F mm	H in	L in	ØT in	oz
5/32	1/8	3091 04 11	.30	12	.51	.37	.20	.63
1/4	1/8	3091 56 11	.30	13	.60	.37	.30	.63
1/4	1/4	3091 56 14	.43	14	.41	.55	.30	.70
3/8	1/4	3091 60 14	.43	19	.83	.55	.35	1.00
3/8	3/8	3091 60 18	.45	19	.73	.55	.40	1.83

mm	BSPT	metric	mm	mm	mm	mm	mm	kg
4	R1/8	3091 04 10	7.5	12	18	9.5	5	.018
6	R1/8	3091 06 10	7.5	13	19.5	9.5	7.5	.018
8	R1/8	3091 08 10	6.5	14	25	10.5	7.5	.025
8	R1/4	3091 08 13	11	14	25.5	13.5	9	.037
10	R3/8	3091 10 17	11.5	17	27.5	14	10	.052

maximum working pressure = 145 psi

3391 self-sealing male fitting — metric tube to BSPP

nickel-plated brass



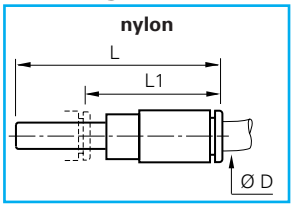
ØD mm	C BSPP		E mm	F mm	H mm	kg
4	G1/8	3391 04 10	5	13	18	.018
6	G1/8	3391 06 10	5	14	19.5	.018
8	G1/8	3391 08 10	5	14	29.5	.025
8	G1/4	3391 08 13	5.5	16	25.5	.037
10	G3/8	3391 10 17	5.5	20	27.5	.052

ØD mm	C BSPP	L mm	L1 mm	ØT mm
4	G1/8	7.5	6	5
6	G1/8	9	6	7.5
8	G1/8	10	6	7.5
8	G1/4	11	8	9
10	G3/8	13	11	10

maximum working pressure = 145 psi

3160 self-sealing plug-in fitting — metric

nylon

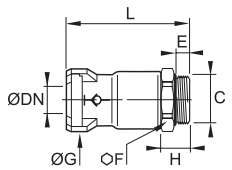


ØD mm		L mm	L1 mm	kg
4	3160 04 00	46	33.5	.005
6	3160 06 00	53.5	31	.009
8	3160 08 00	58	31	.009

This model prevents fluid flow in-line when there is no tube connected; connecting the tube allows fluid flow.

7925 snap connector body — NPT

nylon body



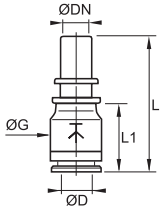
orientable model

C NPT	DN		E in	F mm	G in	H in	L in	oz
1/8	.20	7925 05 11	.24	10.5	.73	.63	1.46	.78
1/4	.20	7925 05 14	.22	10	.73	.63	1.42	.85

We recommend the use of this product for frequent connection/disconnection. More information on page B35.

7960 snap connector plug — fractional inch

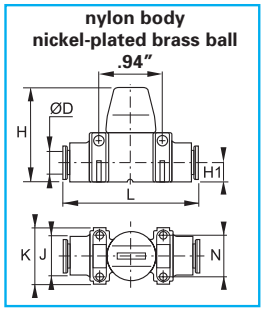
nylon



ØD in	DN		G in	L in	L1 in	oz
1/4	.20	7960 05 56	.53	1.44	.69	.32

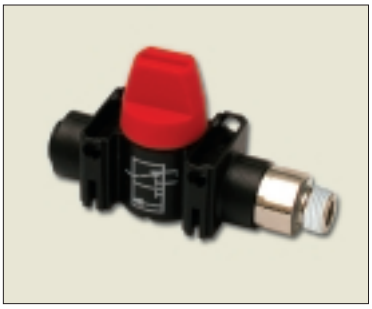
We recommend the use of this product for frequent connection/disconnection. More information on page B35.

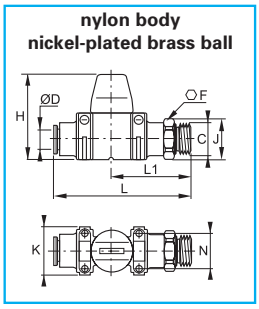
7913 3/2, with vent, with push-to-connect ports



ØD in	fractional inch	H in	H1 in	J in	K in	L in	N in	oz
5/32	7913 04 00	1.46	.30	.59	.87	2.0	.64	.78
1/4	7913 56 00	1.46	.30	.59	.87	2.0	.64	1.45
5/16	7913 08 00	1.46	.30	.59	.87	2.0	.64	1.98
3/8	7913 60 00	1.69	.43	.79	1.18	2.6	.87	4.06
mm	**metric**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**kg**
4	7913 04 00	37	7.5	15	22	51	16.2	0.022
6	7913 06 00	37	7.5	15	22	52	16.2	0.041
8	7913 08 00	37	7.5	15	22	52	16.2	0.056
10	7913 10 00	43	11	20	30	66	22	0.115
12	7913 12 00	43	11	20	30	66	22	0.147

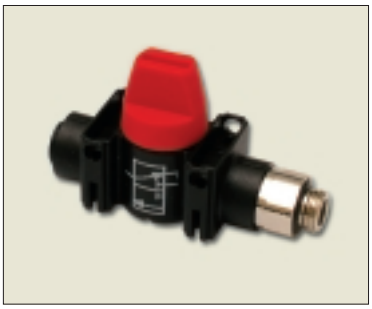
7915 3/2, with vent, with male NPT thread and push-to-connect ports

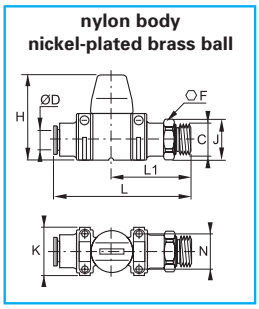




ØD in	C NPT	fractional inch	F mm	H in	J in	K in	L in	L1 in	N in	oz
5/32	1/8	7915 04 11	13	1.46	.55	.87	2.44	1.46	.64	1.76
1/4	1/8	7915 56 11	13	1.46	.55	.87	2.44	1.46	.64	1.90
1/4	1/4	7915 56 14	14	1.46	.59	.87	2.44	1.38	.64	2.40
5/16	1/4	7915 08 14	14	1.46	.59	1.18	2.40	1.61	.64	2.40
5/16	3/8	7915 08 18	18	1.46	.77	1.18	2.91	1.61	.64	2.82
3/8	1/4	7915 60 14	16	1.69	.69	1.18	2.40	1.65	.87	3.60
3/8	3/8	7915 60 18	18	1.69	.77	1.18	2.91	1.65	.87	4.94

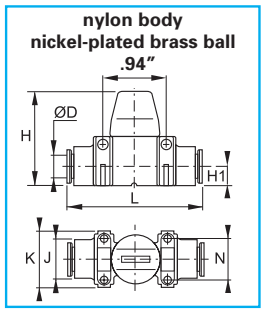
7914 3/2, with vent, with male BSP parallel thread and push-to-connect ports





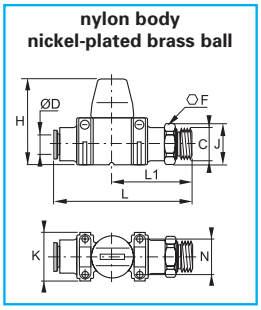
ØD mm	C BSPP	metric	F mm	H mm	J mm	K mm	L mm	L1 mm	N mm	kg
6	G1/8	7914 06 10	13	37	14	22	62	37	16.2	0.054
8	G1/4	7914 08 13	16	37	17.5	22	61	35	16.2	0.068
10	G3/8	7914 10 17	20	43	22	30	74	41	22	0.102
12	G1/2	7914 12 21	24	43	26	30	75	42	22	0.140

7910 2/2, with push-to-connect ports



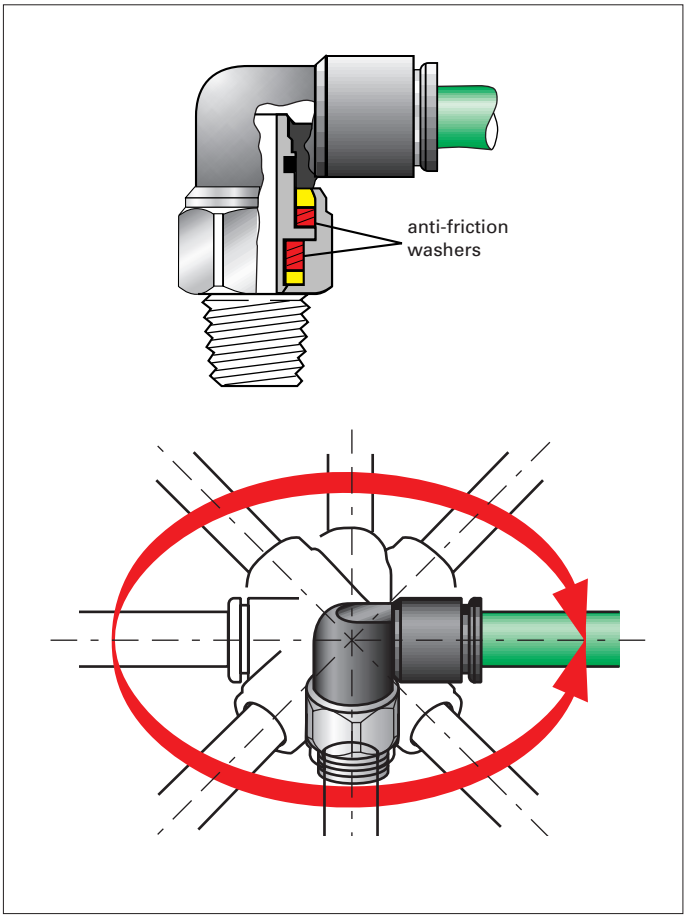
ØD in	fractional inch	H in	H1 in	J in	K in	L in	N in	oz
5/32	7910 04 00	1.46	.30	.59	.87	2.01	.64	.74
1/4	7910 56 00	1.46	.30	.59	.87	2.05	.64	1.41
5/16	7910 08 00	1.46	.30	.59	.87	2.05	.64	1.94
3/8	7910 60 00	1.69	.43	.79	1.18	2.60	.64	3.95
mm	**metric**	**mm**	**mm**	**mm**	**mm**	**mm**	**mm**	**kg**
4	7910 04 00	37	7.5	15	22	51	16.2	0.021
6	7910 06 00	37	7.5	15	22	52	16.2	0.040
8	7910 08 00	37	7.5	15	22	52	16.2	0.055
10	7910 10 00	43	11	20	30	66	16.2	0.112
12	7910 12 00	43	11	20	30	66	16.2	0.144

7911 2/2, with male BSP parallel thread and push-to-connect ports



ØD mm	C BSPP	metric	F mm	H mm	J mm	K mm	L mm	L1 mm	N mm	kg
6	G1/8	7911 06 10	13	37	14	22	62	37	16.2	0.052
8	G1/4	7911 08 13	16	37	17.5	22	61	35	16.2	0.066
10	G3/8	7911 10 17	20	43	22	30	74	41	16.2	0.098
12	G1/2	7911 12 21	24	43	26	30	75	42	16.2	0.129

To join the mini ball valves together, use the clips on pg B17. For more information on the mini ball valves, refer to pages B24 - B25.



Legris oscillating fittings are designed to satisfy the requirements of industrial automation and robotics. The oscillating fitting features low-friction washers enabling the fitting to rotate in conjunction with the stroke of the cylinder piston. This prevents premature tube wear due to excessive flexing. The highly reliable technology used gives particularly long life expectancy on all installations thus equipped.

To achieve longevity of the tubing we advise that the tube is designed to move in the same plane as the tube-exit from the fitting. We advise against the use of recoil tubing.

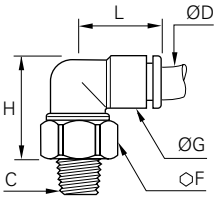
Technical specification

The values in this table are at 90 psi pressure and 70°F temperature.

O.D. tube mm	4	6	8	10	12
torque in Nm x 10	<2.5 • 10^{-3}	<4 • 10^{-3}	<7 • 10^{-3}	<11 • 10^{-3}	<16 • 10^{-3}
maximum rotation speed in radian/second	190	160	120	90	80

3159 oscillating compact elbow — fractional inch tube to NPT

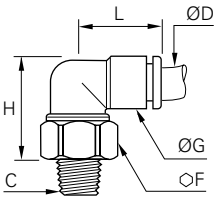
nylon body,
nickel-plated brass base
with pre-applied thread sealant



ØD in	C NPT		F mm	G in	H in	L in	oz
5/32	1/8	3159 04 11	12	.43	.85	.69	.49
1/4	1/8	3159 56 11	14	.55	1.04	.81	.71
1/4	1/4	3159 56 14	14	.55	1.04	.81	.78

3159 oscillating compact elbow — metric tube to BSPT

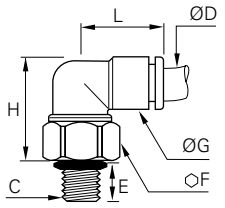
nylon body,
nickel-plated brass base
with pre-applied thread sealant



ØD mm	C BSPT		F mm	G mm	H mm	L mm	kg
4	R1/8	3159 04 10	12	11	22	17.5	.014
6	R1/8	3159 06 10	14	14	26.5	20.5	.020
6	R1/4	3159 06 13	14	14	23.5	20.5	.022
8	R1/8	3159 08 10	17	16	32	23.5	.034
8	R1/4	3159 08 13	17	16	29	23.5	.034
8	R3/8	3159 08 17	17	16	25	23.5	.032
10	R1/4	3159 10 13	19	19.5	37.5	29	.054
10	R3/8	3159 10 17	19	19.5	33.5	29	.050
12	R1/4	3159 12 13	21	22	44.5	33.5	.076
12	R3/8	3159 12 17	21	22	41	33.5	.070
12	R1/2	3159 12 21	21	22	37	33.5	.080

3189 oscillating compact elbow — metric tube to BSPP or M5

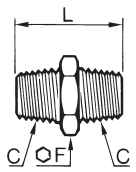
nylon body,
nickel-plated brass base
with sealing washer



ØD mm	C M5/ BSPP		E mm	F mm	G mm	H mm	L mm	kg
4	M5x0.8	3189 04 19	3	12	11	24.5	17.5	.012
4	G1/8	3189 04 10	5	13	11	23	17.5	.014
6	M5x0.8	3189 06 19	3	12	14	27.5	20.5	.016
6	G1/8	3189 06 10	5	14	14	27	20.5	.020
6	G1/4	3189 06 13	5.5	16	14	25.5	20.5	.022
8	G1/8	3189 08 10	5	17	16	33.5	23.5	.034
8	G1/4	3189 08 13	5.5	17	16	31	23.5	.034
8	G3/8	3189 08 17	5.5	20	16	29.5	23.5	.032
10	G1/4	3189 10 13	5.5	19	19.5	50	29	.054
10	G3/8	3189 10 17	5.5	20	19.5	37	29	.050
12	G1/4	3189 12 13	5.5	21	22	46.5	33.5	.076
12	G3/8	3189 12 17	5.5	21	22	45.5	33.5	.070

0121 double male adapters — NPT to BSPT

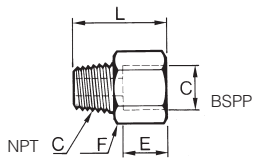
brass



C NPT	C BSPT		F in	L in	oz
1/8	R1/8	0121 11 10	.43	.75	.32
1/4	R1/4	0121 14 13	.55	1.06	.74
3/8	R3/8	0121 18 17	.67	1.10	.88
1/2	R1/2	0121 22 21	.87	1.42	1.8
3/4	R3/4	0121 28 27	1.06	1.57	3.1

0164 male/female adapters — NPT to BSPP

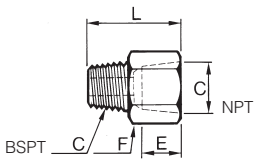
brass



C NPT	C BSPP		E in	F in	L in	oz
1/8	G1/8	0164 11 10	.30	.55	.79	.53
1/4	G1/4	0164 14 13	.43	.67	1.08	.99
3/8	G3/8	0164 18 17	.45	.87	1.12	1.5
1/2	G1/2	0164 22 21	.59	1.06	1.44	2.8
3/4	G3/4	0164 28 27	.65	1.26	1.52	3.9

0167 male/female adapters — BSPT to NPT

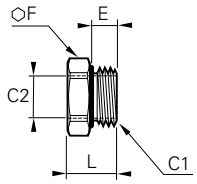
brass



C BSPT	C NPT		E in	F in	L in	oz
R1/8	1/8	0167 10 11	.31	.55	.83	.56
R1/4	1/4	0167 13 14	.45	.67	1.12	1.0
R3/8	3/8	0167 17 18	.47	.87	1.16	1.6
R1/2	1/2	0167 21 22	.61	1.06	1.48	3.0
R3/4	3/4	0167 27 28	.67	1.26	1.56	4.2

0178 reducer male to female — BSPP or M5

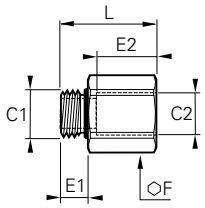
nickel-plated brass, with "O" ring seal



C1 BSPP	C2 BSPP/M5		E mm	F mm	L mm	kg
M7x1	M5x0.8	0178 55 19	5	10	12	.004
G1/8	M5x0.8	0178 10 19	5	13	9	.005
G1/4	G1/8	0178 13 10	5.5	16	9.5	.006
G3/8	G1/8	0178 17 10	5.5	20	10.5	.016
G3/8	G1/4	0178 17 13	5.5	20	10.5	.014
G1/2	G1/4	0178 21 13	7.5	24	12.5	.024
G1/2	G3/8	0178 21 17	7.5	24	12.5	.016
G3/4	G1/2	0178 27 21	7.5	32	13.5	.035

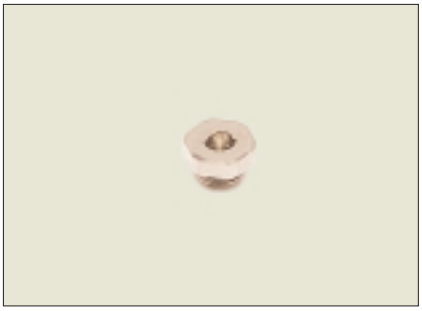
0179 expander male to female — BSPP

nickel-plated brass, with "O" ring seal

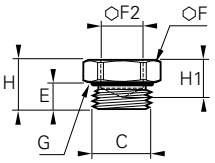


C1 BSPP	C2 BSPP		E1 mm	E2 mm	F mm	L mm	kg
M12x1.5	G1/4	0179 67 13	6.5	8	16	18	.005
G1/8	G1/4	0179 10 13	5	12	16	19	.005
G1/4	G3/8	0179 13 17	5.5	15	20	23	.006
G3/8	G1/2	0179 17 21	5.5	16	24	24	.016

0222 threaded plug — BSPP or M5



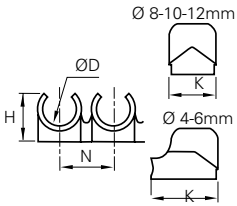
nickel-plated brass, with "O" ring seal



C BSPP/M5		E mm	F mm	G mm	F2 mm	H mm	H1 mm	kg
M5x0.8	0222 19 00	3.5	8	9	2.5	7.1	4.1	.004
M7x1	0222 55 00	5	10		3	8.5	4.7	.005
G1/8	0222 10 00	5	13	14	5	8.6	6.4	.005
G1/4	0222 13 00	5.5	16	17.5	6	9.5	7.4	.007
G3/8	0222 17 00	5.5	20	22	8	10.5	8.4	.012
G1/2	0222 21 00	7.5	24	26	10	12.1	9.9	.019

Clip clip strips for tubing and fittings

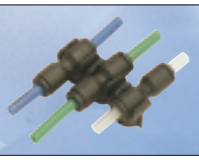
nylon body



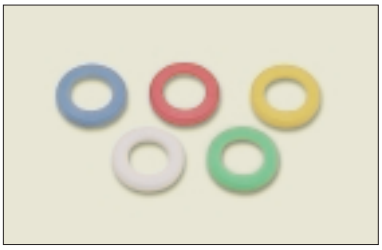
ØD tube	Ø LF3000 to be clipped		H mm	K mm	N mm	Number of clips per strip	kg
5/32, 4mm		Clip 04 00	9	13.5	10.5	8	.008
1/4, 3/16, 6mm		Clip 06 00	10.5	13	10.5	8	.009
5/16, 8mm	5/32, 4mm	Clip 08 00	12.5	10.5	12	7	.009
3/8, 10mm	1/4, 6mm	Clip 10 00	14	12	15	6	.010
1/2, 12mm		Clip 12 00	16.5	14	16.5	5	.011
14mm	5/16, 8mm	Clip 14 00	18	16	20.5	4	.011

Legris clips can be used to mount both tubing and fittings. To order clips for tubing use the column "O.D. tube". To order clips for mounting a fitting order by the "LF3000® to be clipped". Clip strips are packaged in quantities of 5, but ordered by individual strip. They come complete with screws of 9.5mm length.

Legris clips are also designed to fix LF3000® fittings in series within a minimum of space. Supplied in strips, clips can be separated by hand or with a tube cutter and enable the use of multiple clips, depending on the users' needs.

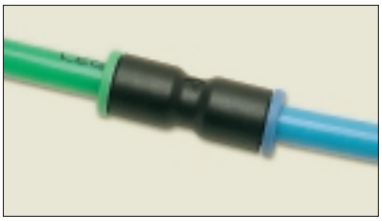


3110/3330 caps/manual release button



fractional inch

O.D. TUBE in						oz
1/8	3110 53 00	NA	3110 53 02	3110 53 03	3110 53 04	3110 53 05	.04
5/32	3110 04 00	NA	3110 04 02	3110 04 03	3110 04 04	3110 04 05	.04
3/16	3330 55 00	3330 55 01	3330 55 02	3330 55 03	3330 55 04	3330 55 05	.04
1/4	3110 56 00	NA	3110 56 02	3110 56 03	3110 56 04	3110 56 05	.04
5/16	3110 08 00	NA	3110 08 02	3110 08 03	3110 08 04	3110 08 05	.04
3/8	3110 60 00	NA	3110 60 02	3110 60 03	3110 60 04	3110 60 05	.04
1/2	3110 62 00	NA	3110 62 02	3110 62 03	3110 62 04	3110 62 05	.04



metric

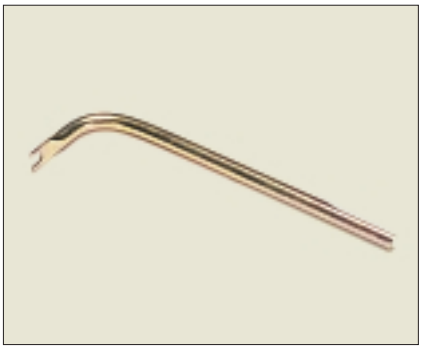
O.D. TUBE mm						kg
4	3110 04 00	3110 04 02	3110 04 03	3110 04 04	3110 04 05	.001
6	3110 06 00	3110 06 02	3110 06 03	3110 06 04	3110 06 05	.001
8	3110 08 00	3110 08 02	3110 08 03	3110 08 04	3110 08 05	.001
10	3110 10 00	3110 10 02	3110 10 03	3110 10 04	3110 10 05	.001
12	3110 12 00	3110 12 02	3110 12 03	3110 12 04	3110 12 05	.001
14	3110 14 00	3110 14 02	3110 14 03	3110 14 04	3110 14 05	.001

In all sizes of the LF3000® fittings, except 3/16", the push button is an integral part of the design which makes it non-removable, and comes standard in black. For identification of the circuits, colored caps (p/n 3110) fit over the black push button.

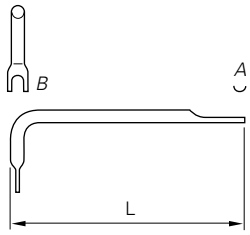
On the 3/16" sizes, the buttons are removable and can be replaced with a button of another color (p/n 3330).

Five colors are available which allow color coding of the fitting, in association with tubes of the same color.

3000 70 disconnection tool



nickel-plated steel



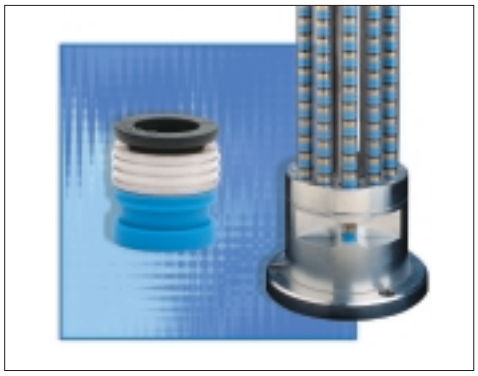
A - for disconnection at a face
B - for disconnection between fittings

ØD		L mm	kg
5/32", 4mm	3000 70 04	180	.024
1/4", 6mm	3000 70 06	196	.040
5/16", 8mm	3000 70 08	208	.053
3/8", 10mm	3000 70 10	220	.069
1/2", 12mm	3000 70 12	236	.092
14mm	3000 70 14	254	.108

In cases where access is difficult this tool can be useful, particularly if the standard release buttons have been removed. (Release buttons can only be removed on 3/16" sizes.)

The **LF3000® system** is designed for use with **various types of tubing** found in this catalog:

- semi-rigid nylon tube
  1/8" to 1/2" O.D. – page M7
  4mm to 14mm O.D. – page M9
- flexible polyurethane tube
  1/8" to 1/2" O.D. – page M11
  4mm to 14mm O.D. – page M13
- low density polyethylene
  1/8" to 1/2" O.D. – page M15
  4mm to 12mm O.D. – page M15
- fluoropolymer tube
  1/8" to 1/2" O.D. – page M16
  4mm to 12mm O.D. – page M16

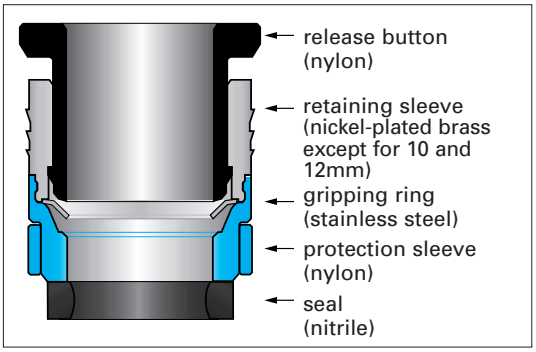


The Carstick® concept combines LF3000® one-piece cartridges with a specially designed protection and dispensing sleeve.
Ideal for continuous processes in large quantities, it provides a performance solution for automatic, semi automatic and manual assembly equipment for pneumatic components.

Advantages:

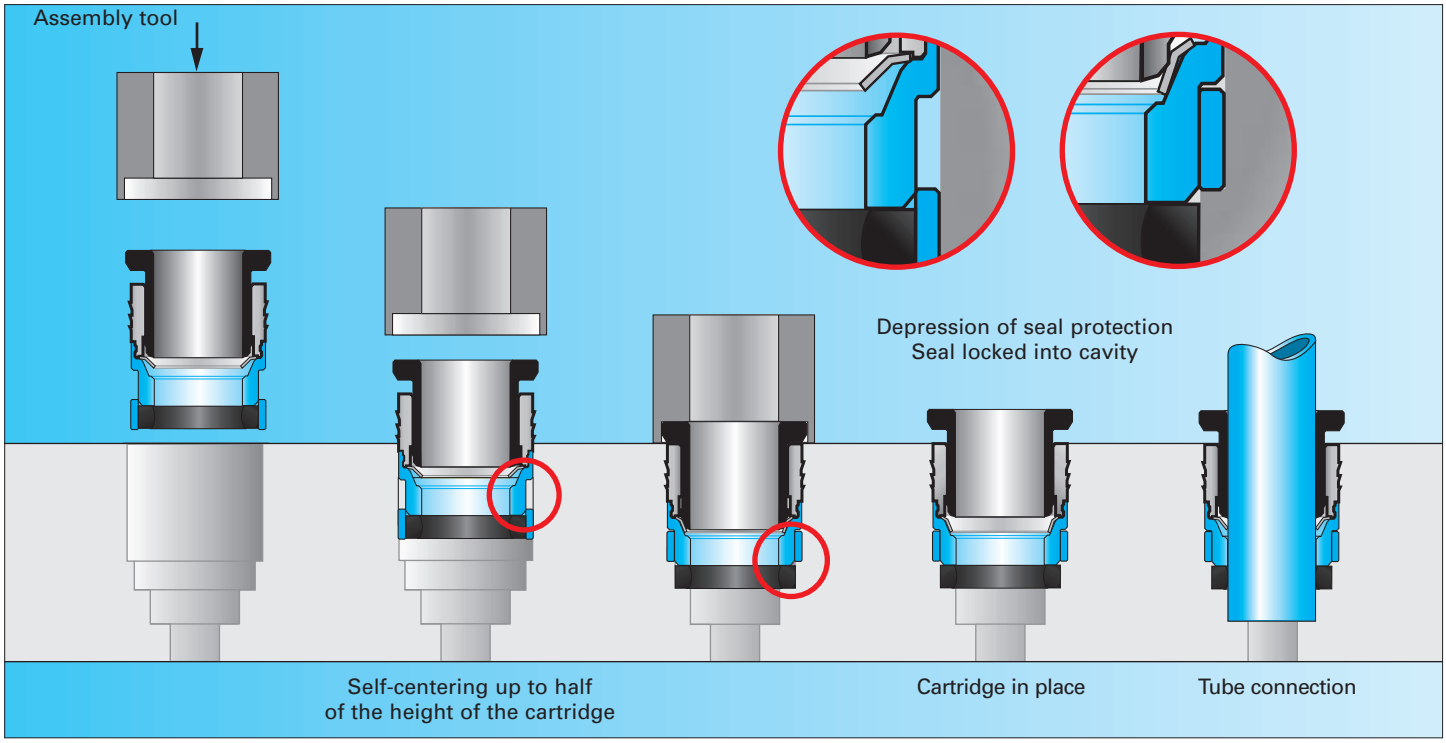
- **assembly time saving, with complete safety**
  - one piece cartridge, no risk of losing the seal
  - pre-greased and protected seal
  - self-centering of the cartridge to half of its height within the cavity
  - protection against contaminants (dust, swarf ...) throughout manufacture and assembly.
- **tried and tested technology**
  - LF3000® technical performance
  - automatic seal, full flow, vacuum capability.
- **optimized dimensions**
- **suitable for automatic processes**
  - automatic self alignment during insertion
  - capable of combining dispensing and assembly
- **closer mounting tolerances and shallow cavities**

working specifications



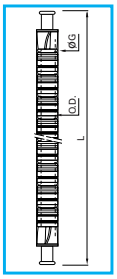
suitable fluid	compressed air
working pressure	to 290 psi maximum
working temperature	-4°F to +175°F
vacuum	28 in Hg

Carstick® is designed for use with Legris semi-rigid nylon and flexible polyurethane tubing.



Legris can also provide alternative designs such as:
• other types of seal (EPDM, FKM...) • other materials (stainless steel sleeve...) Please ask for details.

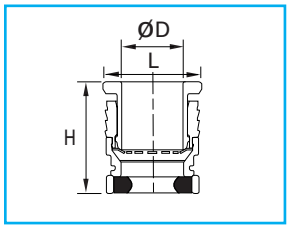
3100 carstick®



ØD cartridge		G in	L in
1/8	3100 53 00 99	.40	20.00
5/32, 4mm	3100 04 00 99	.57	20.87
6mm	3100 06 00 99	.57	23.62
1/4	3100 56 00 99	.57	23.62
5/16, 8mm	3100 08 00 99	.75	30.12
3/8	3100 60 00 99	.75	36.75
10mm	3100 10 00	.77	36.61
12mm	3100 12 00	.84	40.87

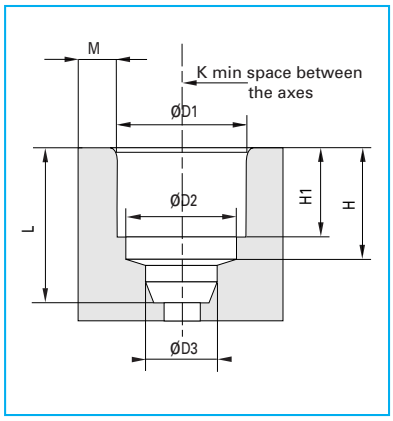
50 cartridges per carstick®

cartridge



ØD	L in	H in
1/8	.28	.365
5/32, 4mm	.33	.39
6mm	.41	.46
1/4	.41	.48
5/16, 8mm	.51	.59
3/8	.61	.65
10mm	.61	.67
12mm	.77	.77

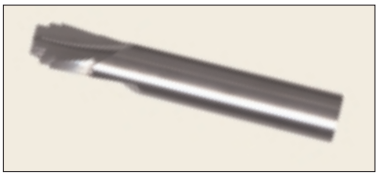
cavity dimensions



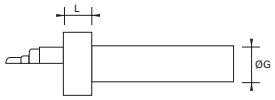
ØD	nylon cavity ØD1 mm	nylon cavity ØD2 mm	nylon cavity K mm	nylon cavity M mm	aluminum cavity ØD1 mm	aluminum cavity ØD2 mm	aluminum cavity K mm	aluminum cavity M mm	brass cavity ØD1 mm	brass cavity ØD2 mm	brass cavity K mm	brass cavity M mm
1/8	7.05 ±.05	6.2 ±.05	8.6	1.5	7.1 +.04 −.03	6.2 ±.05	8.6	1.5	7.1 +.04 −.03	6.2 ±.05	8.6	1.5
5/32, 4mm	8.25 +.06 −.04	7.05 +.06 −.04	9.75	1.5	8.25 +.04 −.03	7.05 +.06 −.04	11.25	3	8.25 +.04 −.03	7.05 +.06 −.04	10.25	2
1/4	10.55 +.06 −.04	9.35 ±.05	12.6	2	10.6 +.04 −.03	9.35 ±.05	12.65	2	10.6 +.04 −.03	9.35 ±.05	12.65	2
6mm	10.2 +.06 −.04	9.1 +.08 −.02	12.2	2	10.3 +.04 −.03	9.1 +.08 −.02	13.3	3	10.25 +.04 −.03	9.1 +.08 −.02	12.25	2
5/16, 8mm	12.15 +.06 −.04	10.85 ±.05	14.2	2	12.2 +.07 −0	10.85 ±.05	15.2	3	12.2 +.05 −.02	10.85 ±.05	14.25	2
3/8	14.8 +.09 −.01	13.1 +.08 −.02	16.8	2	15.05 +.03 −.04	13.1 +.08 −.02	17.1	2	10.05 +.03 −.04	13.1 +.08 −.02	17.1	2

ØD	ØD3 mm	H mm	H1 mm	L mm
1/8	3.25 ±.05	7.45 +.1 −.05	5.3 +.1 −.05	9.5 +.3 −0
5/32, 4mm	4.1 ±.05	8.15 +.1 −.05	6 +.1 −.05	10 +.3 −0
1/4	6.45 ±.05	10.15 +.1 −.05	8 +.1 −.05	12.5 +.3 −0
6mm	6.1 ±.05	9.65 +.1 −.05	7.5 +.1 −.05	12 +.3 −0
5/16, 8mm	8.15 +.07 −.03	12.45 ±.1	9.9 ±.1	15.5 +.3 −0
3/8	9.65 +.06 −.03	14.35 ±.1	11.7 ±.1	19 +.3 −0

3100 machine tool for cavity — aluminum and brass cavities

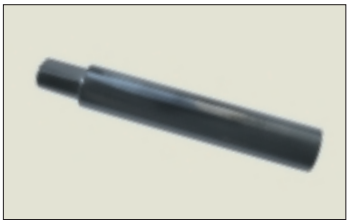


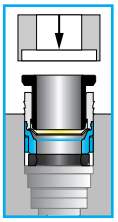
high speed steel



ØD in		G in	L in	shank in
1/8	3100 81 53	.3125	.25	5/16
5/32	3100 81 04	.3750	.25	3/8
1/4	3100 81 56	.5000	.25	1/2
5/16	3100 81 08	.5625	.25	9/16
3/8	3100 81 60	.6250	.25	5/8

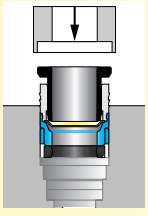
3100 assembly tool for carstick





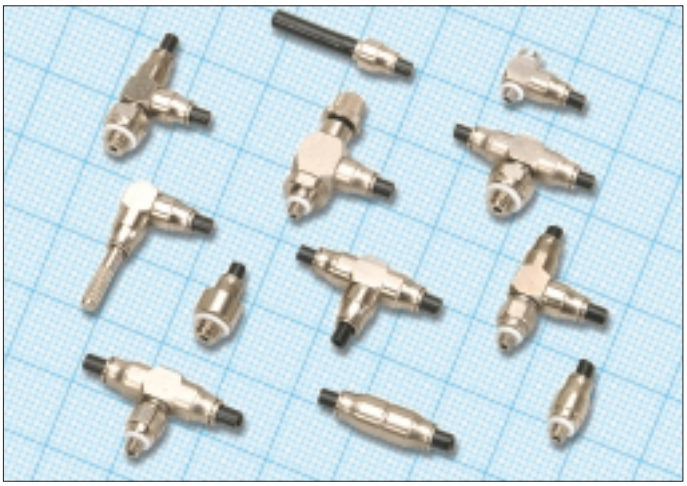
ØD in	
1/8	3100 83 53
5/32	3100 83 04
1/4	3100 83 56
5/16	3100 83 08
3/8	3100 83 60

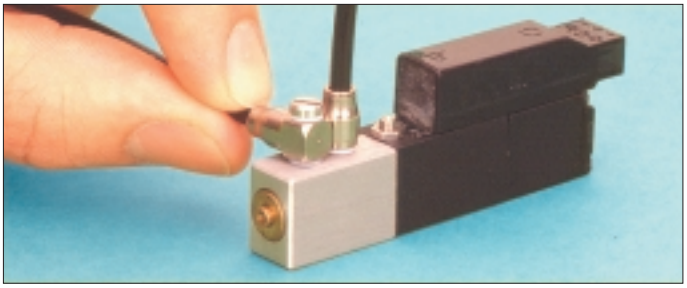
Force required for insertion (F)



tube ØD	nylon cavity	aluminum cavity	brass cavity
1/8"	675 lbf	675 lbf	675 lbf
5/32", 4mm	675 lbf	675 lbf	675 lbf
6mm	675 lbf	675 lbf	675 lbf
5/16", 8mm	675 lbf	785 lbf	675 lbf
3/8", 10mm	675 lbf	675 lbf	675 lbf
12mm	900 lbf	900 lbf	900 lbf

principle and specifications of 3mm push-in fittings





Very small pneumatic installations used in many industries have severe size and weight constraints, together with an absolute requirement for precision and reliability. The Legris 3mm instant fitting is the answer to such applications.

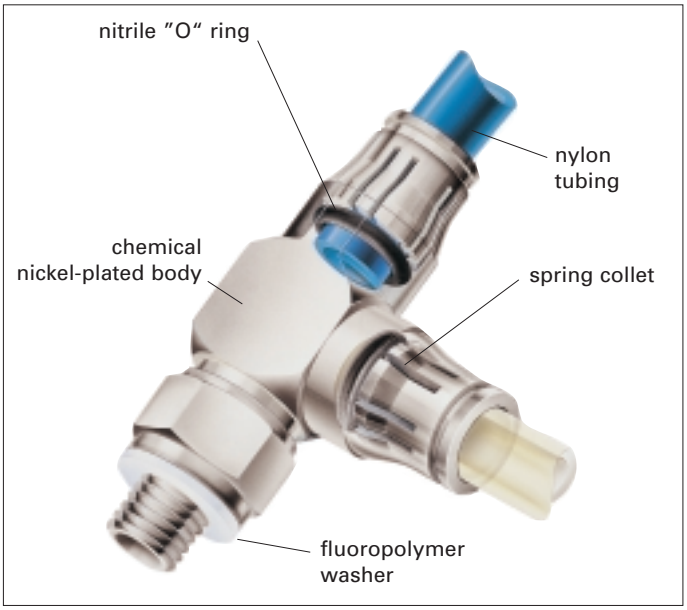
Very small and lightweight, 3mm push-in fittings are designed for highly compact space requirements. Entirely made of chemically nickel-plated brass (body and collet), this range is resistant to corrosive and aggressive environments. Its gripping principle is based on that of Legris push-in fittings: instant connection and disconnection, by hand and without any tool.

A few examples of industrial applications are:

- assembly of electronic components using gripper feeds
- semi-conductor, integrated circuit production using miniature cylinders and valves
- manufacturing and assembly in the textile and sewing industries using micro-pneumatic circuitry
- precision mechanics, such as dental equipment

technical specifications

Reliable performance is dependent upon the type of tube being used, the wall thickness of the tube, ambient temperature and fluid conveyed together with the component materials of the fitting.

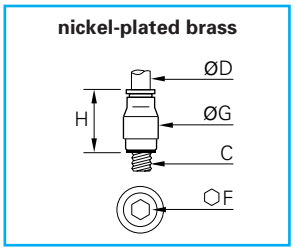


suitable fluids	compressed air
working pressure	260 psi maximum. The maximum pressure of the circuit depends on the type of tube used.
working temperature	from 5°F to 160°F. The allowable working temperature depends on the type of tube used.
materials of construction	**body:** nickel-plated brass **internal seal:** nitrile "O" ring **thread seal:** fluoropolymer **collet:** nickel-plated brass
tightening torque for 3mm fittings	0.8 to 8 in. lb

All items in the LF3000® range are guaranteed SILICONE FREE

3281 male stud fitting — metric tube to M3, M5, or UNF

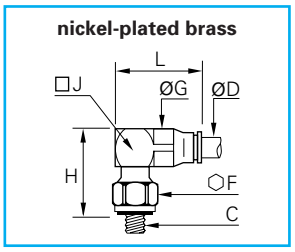
nickel-plated brass



ØD mm	C		F mm	G mm	H mm	kg
3	M3x0.5	3281 03 09	1.5	6	9.5	.001
3	M5x0.8	3281 03 19	1.5	7.8	9.5	.002
			F mm	G in	H in	oz
3	10-32	3281 03 20	1.5	.30	.37	.07

3299 compact male elbow — metric tube to M3, M5, or UNF

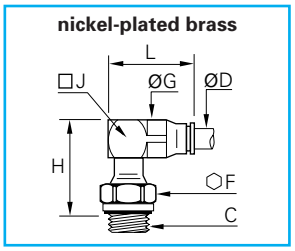
nickel-plated brass



ØD mm	C		F mm	G mm	H mm	J mm	L mm	kg
3	M3x0.5	3299 03 09	6	6.2	13.5	6	13.5	.003
3	M5x0.8	3299 03 19	8	6.2	13	6	13.5	.004
			F mm	G in	H in	J mm	L in	oz
3	10-32	3299 03 20	8	.24	.51	6	.53	.14

3229 extended male elbow — metric tube to M3, M5

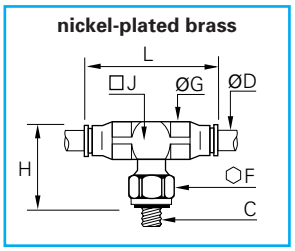
nickel-plated brass



ØD mm	C		F mm	G mm	H mm	J mm	L mm	kg
3	M3x0.5	3229 03 09	6	6.2	16	6	13.5	.001
3	M5x0.8	3229 03 19	8	6.2	17	6	13.5	.001

3298 male branch tee — metric tube to M3, M5, or UNF to tube

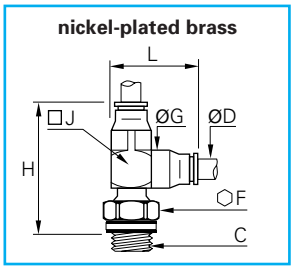
nickel-plated brass



ØD mm	C		F mm	G mm	H mm	J mm	L mm	kg
3	M3x0.5	3298 03 09	6	6.2	13.5	6	20.5	.004
3	M5x0.8	3298 03 19	8	6.2	13	6	20.5	.005
			F mm	G in	H in	J mm	L in	oz
3	10-32	3298 03 20	8	.24	.51	6	.80	.18

3293 male run tee — metric tube to tube to M3 or M5

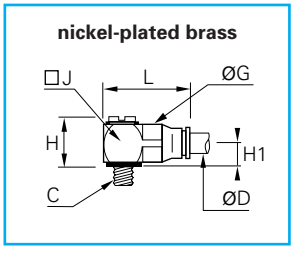
nickel-plated brass



ØD mm	C		F mm	G mm	H mm	J mm	L mm	kg
3	M3x0.5	3293 03 09	6	6.2	20.5	6	13.5	.004
3	M5x0.8	3293 03 19	8	6.2	20	6	13.5	.005

3218 single banjo — metric tube to M3, M5, or UNF

nickel-plated brass

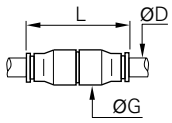


ØD mm	C		G mm	H mm	H1 mm	J mm	L mm	kg
3	M3x0.5	3218 03 09	6.2	9.5	4	6	12.5	.002
3	M5x0.8	3218 03 19	6.2	10.5	4.5	8	15	.005
			G in	H in	H1 in	J mm	L in	oz
3	10-32	3218 03 20	.24	.41	.18	6	.59	.18

The body is orientable for positioning purposes.

3206 straight union tube to tube — metric

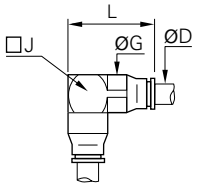
nickel-plated brass



ØD mm		G mm	L mm	kg
3	3206 03 00	6.2	17	.002

3202 union elbow — metric

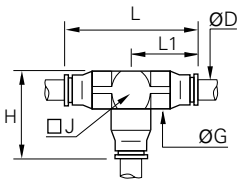
nickel-plated brass



ØD mm		G mm	J mm	L mm	kg
3	3202 03 00	6.2	6	13.5	.003

3204 union tee — metric

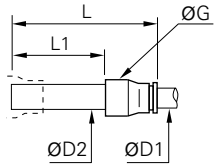
nickel-plated brass



ØD mm		G mm	J mm	H mm	L mm	L1 mm	kg
3	3204 03 00	6.2	6	13.5	20.5	10.5	.004

3266 reducer — metric

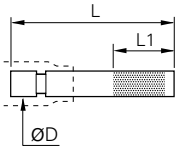
nickel-plated brass



ØD1 mm	ØD2 mm		G mm	L mm	L1 mm	kg
3	4	3266 03 04	6.2	28	19	.001

3226 plug — metric

nickel-plated brass



ØD mm		L mm	L1 mm	kg
3	3226 03 00	20	10	.001

3mm miniature flow regulators can be found on page B12.

3mm push-in fittings allow connection with various tubing presented in this catalog:

- semi-rigid nylon tube 3mm O.D. - page M9
- flexible polyurethane tube 3mm O.D. - page M13