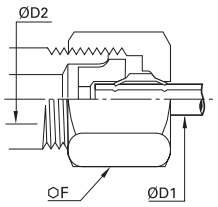
Complementary Brass Compression Fittings

0166 3-Piece Reducer



Brass



ØD1	ØD2		F	kg
4	5	0166 04 05	13	0.011
	6	0166 04 06	13	0.011
	8	0166 04 08	14	0.012
	10	0166 04 10	19	0.031
	12	0166 04 12	22	0.044
	14	0166 04 14	24	0.054
	15	0166 04 15	24	0.056
5	6	0166 05 06	13	0.010
	8	0166 05 08	14	0.012
	10	0166 05 10	19	0.030
	12	0166 05 12	22	0.044
	14	0166 05 14	24	0.053
	16	0166 05 16	27	0.078
6	8	0166 06 08	14	0.012
	10	0166 06 10	19	0.030
	12	0166 06 12	22	0.043
	14	0166 06 14	24	0.052
	15	0166 06 15	24	0.054
	16	0166 06 16	27	0.077
8	10	0166 08 10	19	0.027
	12	0166 08 12	22	0.040
	14	0166 08 14	24	0.051
	15	0166 08 15	24	0.053
	16	0166 08 16	27	0.076
	18	0166 08 18	30	0.100
10	12	0166 10 12	22	0.037
	14	0166 10 14	24	0.045
	15	0166 10 15	24	0.047
	16	0166 10 16	27	0.068
	18	0166 10 18	30	0.095
	20	0166 10 20	32	0.107
	22	0166 10 22	36	0.144
	25	0166 10 25	41	0.209
12	14	0166 12 14	24	0.043
	15	0166 12 15	24	0.043
	16	0166 12 16	27	0.066
	18	0166 12 18	30	0.092
	20	0166 12 20	32	0.102
	22	0166 12 22	36	0.140
	25	0166 12 25	41	0.200
14	16	0166 14 16	27	0.060
	18	0166 14 18	30	0.084
	20	0166 14 20	32	0.095
	22	0166 14 22	36	0.133
	25	0166 14 25	41	0.189
15	18	0166 15 18	30	0.081
	22	0166 15 22	36	0.130
16	18	0166 16 18	30	0.078
	20	0166 16 20	32	0.088
	22	0166 16 22	36	0.126
	25	0166 16 25	41	0.185
18	20	0166 18 20	32	0.082
	22	0166 18 22	36	0.118
	25	0166 18 25	41	0.180
	28	0166 18 28	42	0.176
20	25	0166 20 25	41	0.168
22	28	0166 22 28	42	0.168

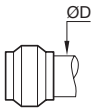
ØD1: tube to be fitted
ØD2: for an x mm Ø fitting
Each of the above part numbers comprises:
- a reduction piece
- an olive, PN 0124
- a sleeve nut

Complementary Brass Compression Fittings

0124 Brass Olive



Brass

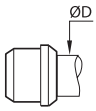


ØD		kg
4	0124 04 00	0.001
5	0124 05 00	0.001
6	0124 06 00	0.001
8	0124 08 00	0.001
10	0124 10 00	0.003
12	0124 12 00	0.004
14	0124 14 00	0.005
15	0124 15 00	0.004
16	0124 16 00	0.006
18	0124 18 00	0.007
20	0124 20 00	0.009
22	0124 22 00	0.012
25	0124 25 00	0.017
28	0124 28 00	0.017

0124..40 Steel Olive



Zinc-plated steel

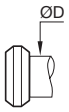


ØD		kg
4	0124 04 00 40	0.001
6	0124 06 00 40	0.001
8	0124 08 00 40	0.001
10	0124 10 00 40	0.003
12	0124 12 00 40	0.003
14	0124 14 00 40	0.005
15	0124 15 00 40	0.004
16	0124 16 00 40	0.006
18	0124 18 00 40	0.007
20	0124 20 00 40	0.007
22	0124 22 00 40	0.010
25	0124 25 00 40	0.014

0111 BNA* Brass Olive



Brass



ØD		kg
4	0111 04 00	0.001
5	0111 05 00	0.001
6	0111 06 00	0.001
8	0111 08 00	0.001
10	0111 10 00	0.002
12	0111 12 00	0.002
14	0111 14 00	0.003
15	0111 15 00	0.003
16	0111 16 00	0.003

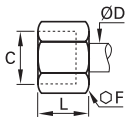
*BNA: Bureau de Normalisation de l'Automobile (standards organization in the field of Automotive Process)

Complementary Brass Compression Fittings

0110 Brass Nut



Brass

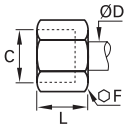


ØD	C		F	L	kg
4	M8x1	0110 04 00	10	11	0.005
5	M10x1	0110 05 00	12	11	0.006
6	M10x1	0110 06 00	13	11	0.008
8	M12x1	0110 08 00	14	13	0.008
10	M16x1.5	0110 10 00	19	15	0.019
12	M18x1.5	0110 12 00	22	15	0.026
14	M20x1.5	0110 14 00	24	15	0.029
15	M20x1.5	0110 15 00	24	15	0.028
16	M22x1.5	0110 16 00	27	17	0.042
18	M24x1.5	0110 18 00	30	18	0.057
20	M27x1.5	0110 20 00	32	18	0.057
22	M30x1.5	0110 22 00	36	19	0.078
25	M33x1.5	0110 25 00	41	21	0.121
28	M36x1.5	0110 28 00	42	21	0.110

0110..40 Steel Nut



Zinc-plated steel

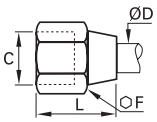


ØD	C		F	L	kg
4	M8x1	0110 04 00 40	10	11	0.004
5	M10x1	0110 05 00 40	12	11.5	0.005
6	M10x1	0110 06 00 40	13	12	0.008
8	M12x1	0110 08 00 40	14	13.5	0.008
10	M16x1.5	0110 10 00 40	19	16	0.018
12	M18x1.5	0110 12 00 40	22	16.5	0.027
14	M20x1.5	0110 14 00 40	24	17	0.030
15	M20x1.5	0110 15 00 40	24	17	0.029
16	M22x1.5	0110 16 00 40	27	18	0.042
18	M24x1.5	0110 18 00 40	30	19	0.056
20	M27x1.5	0110 20 00 40	32	20.5	0.061
22	M30x1.5	0110 22 00 40	36	21.5	0.085

0110..60 Brass Long Nut



Brass

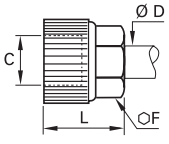


ØD	C		F	L	kg
4	M8x1	0110 04 00 60	11	14.5	0.007
5	M10x1	0110 05 00 60	13	17	0.008
6	M10x1	0110 06 00 60	13	17.5	0.011
8	M12x1	0110 08 00 60	16	20	0.019
10	M16x1.5	0110 10 00 60	20	23	0.032
12	M18x1.5	0110 12 00 60	22	25	0.039
14	M20x1.5	0110 14 00 60	24	30	0.051
15	M20x1.5	0110 15 00 60	24	30	0.049
16	M22x1.5	0110 16 00 60	27	32	0.070
18	M24x1.5	0110 18 00 60	30	35	0.098
20	M27x1.5	0110 20 00 60	32	35	0.102
22	M30x1.5	0110 22 00 60	36	36	0.129

0110..70 Technical Polymer Nut-Olive



Technical polymer



ØD	C		F	L	kg
4	M8x1	0110 04 00 70	8	13	0.008
6	M10x1	0110 06 00 70	11	15	0.002
8	M12x1	0110 08 00 70	13	16	0.002
10	M16x1.5	0110 10 00 70	17	19	0.004
12	M18x1.5	0110 12 00 70	19	19	0.005
14	M20x1.5	0110 14 00 70	22	20	0.005
16	M22x1.5	0110 16 00 70	24	21	0.008

NB: polymer nut-olives should not be used on metal tubing.

Complementary Brass Fittings

Assembly Configuration

The table and information given below illustrate the large number of options available with Parker Legris brass compression fittings. To these must be added the advantages specific to the original Parker Legris reducer shown on the previous page.



Brass Body

0110 Brass			**0110..60** Brass		**0110..40** Steel	**0110..70*** Polymer
	0124 Brass	**0111** BNA** Brass	**0124** Brass	**0111** BNA** Brass	**0124...40** Steel	
No olive required to assemble the plug						No olive required to assemble the tube
Brass plug: **0126** 	Copper, cold-rolled brass, polymer tube and barb connectors **0122** and **0165** 	Coiled annealed copper tube 	Cold-rolled copper tube for vibration and side loading, etc. 	Coiled annealed copper tube for vibration and side loading, etc. 	Steel or copper tube: low/medium hydraulic pressure, lubricate before assembly 	Polymer tube 

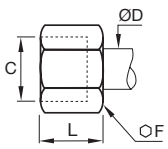
***Assembly specifications for nut-olive 0110 ..70**
This part functions as both olive and nut for flexible polymer tube assemblies:
1. Hand tighten the polymer nut-olive a few turns onto the body of the fitting; the knurling makes this easier.
2. Then introduce the polymer tube and push home into the body of the fitting.
3. Continue manually tightening the polymer nut-olive.
4. Finish tightening using a spanner until the nut body disengages and turns freely, which acts as a torque limiter.

N.B.: To avoid damaging the threads, do not insert the tube before hand tightening the nut-olive into the body of the fitting.
**Bureau de Normalisation de l'Automobile (French Automotive Bureau of Standards)

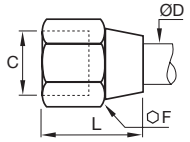
Recommended Tightening Torque

Tightening torque in daN.m = maximum tightening torque of a **0110** nut and **0124** olive with copper, brass or steel tube.

Nut **0110** and **0110..40**



Nut **0110..60**



Ø D (mm)	⬡F 0110	⬡F 0110..60	max. daN.m copper or brass	⬡F 0110..40	max. daN.m steel
4	10	11	0.7	10	1.5
5	12	13	0.7	12	1.5
6	13	13	1.5	13	2.5
8	14	16	1.5	14	2.5
10	19	20	1.8	19	3
12	22	22	3	22	4.5
14	24	24	3.5	24	5.5
15	24	24	4	24	6
16	27	27	5	27	7
18	30	30	6	30	9
20	32	32	6	32	10
22	36	36	7	36	12
25	41	41	8	41	13
28	42		9		