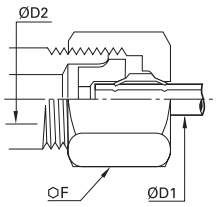
# Complementary Brass Compression Fittings

## 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

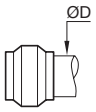
# Complementary Brass Compression Fittings



## 0124 Brass Olive



Brass

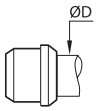



| ØD | | kg |
|---|---|---|
| 4 | 0124 04 00 | 0.001 |
| 5 | 0124 05 00 | 0.001 |
| 6 | 0124 06 00 | 0.001 |
| 8 | 0124 08 00 | 0.001 |
| 10 | 0124 10 00 | 0.003 |
| 12 | 0124 12 00 | 0.004 |
| 14 | 0124 14 00 | 0.005 |
| 15 | 0124 15 00 | 0.004 |
| 16 | 0124 16 00 | 0.006 |
| 18 | 0124 18 00 | 0.007 |
| 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

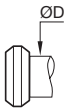



| ØD | | kg |
|---|---|---|
| 4 | 0124 04 00 40 | 0.001 |
| 6 | 0124 06 00 40 | 0.001 |
| 8 | 0124 08 00 40 | 0.001 |
| 10 | 0124 10 00 40 | 0.003 |
| 12 | 0124 12 00 40 | 0.003 |
| 14 | 0124 14 00 40 | 0.005 |
| 15 | 0124 15 00 40 | 0.004 |
| 16 | 0124 16 00 40 | 0.006 |
| 18 | 0124 18 00 40 | 0.007 |
| 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 |

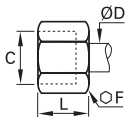
*BNA: Bureau de Normalisation de l'Automobile (standards organization in the field of Automotive Process)

# Complementary Brass Compression Fittings

## 0110 Brass Nut



Brass

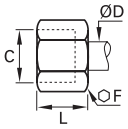



| ØD | C | | F | L | kg |
|---|---|---|---|---|---|
| 4 | M8x1 | 0110 04 00 | 10 | 11 | 0.005 |
| 5 | M10x1 | 0110 05 00 | 12 | 11 | 0.006 |
| 6 | M10x1 | 0110 06 00 | 13 | 11 | 0.008 |
| 8 | M12x1 | 0110 08 00 | 14 | 13 | 0.008 |
| 10 | M16x1.5 | 0110 10 00 | 19 | 15 | 0.019 |
| 12 | M18x1.5 | 0110 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

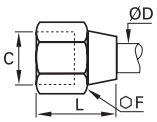



| ØD | C | | F | L | kg |
|---|---|---|---|---|---|
| 4 | M8x1 | 0110 04 00 40 | 10 | 11 | 0.004 |
| 5 | M10x1 | 0110 05 00 40 | 12 | 11.5 | 0.005 |
| 6 | M10x1 | 0110 06 00 40 | 13 | 12 | 0.008 |
| 8 | M12x1 | 0110 08 00 40 | 14 | 13.5 | 0.008 |
| 10 | M16x1.5 | 0110 10 00 40 | 19 | 16 | 0.018 |
| 12 | 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

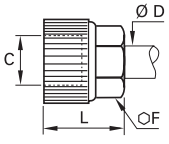



| ØD | C | | F | L | kg |
|---|---|---|---|---|---|
| 4 | M8x1 | 0110 04 00 60 | 11 | 14.5 | 0.007 |
| 5 | M10x1 | 0110 05 00 60 | 13 | 17 | 0.008 |
| 6 | M10x1 | 0110 06 00 60 | 13 | 17.5 | 0.011 |
| 8 | M12x1 | 0110 08 00 60 | 16 | 20 | 0.019 |
| 10 | M16x1.5 | 0110 10 00 60 | 20 | 23 | 0.032 |
| 12 | 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  |

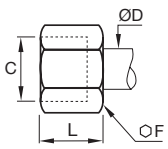
***Assembly specifications for nut-olive 0110 ..70**
This part functions as both olive and nut for flexible polymer tube assemblies:
1. Hand tighten the polymer nut-olive a few turns onto the body of the fitting; the knurling makes this easier.
2. Then introduce the polymer tube and push home into the 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)

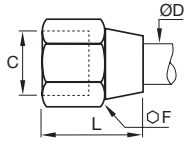
### Recommended Tightening Torque

**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 | | |