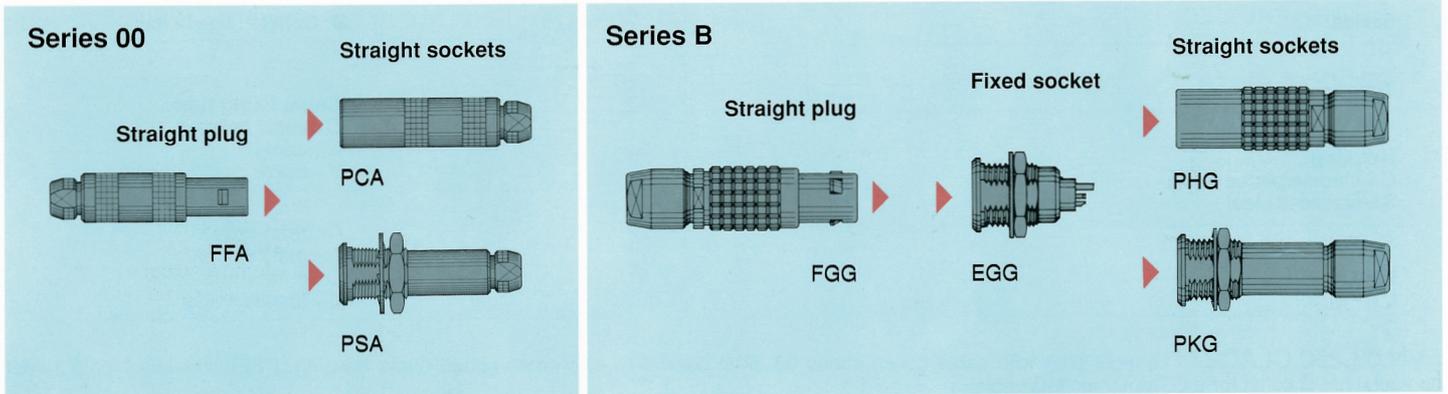


LEMO fluidic connectors find many applications, for example in medical and dentistry equipment among many others. These connectors may be of the monotube type available in the series 00 and 0B or of the multitube type and/or mixed with electrical contacts available in the series 2B and 3B. On request other types not mentioned in this catalogue can be developed.

## Interconnections



## Model description

### Monofluidic (Series 00 )

- FFA** Straight plug with cable collet
- PCA** Free socket with cable collet
- PSA** Fixed socket, nut fixing, with cable collet

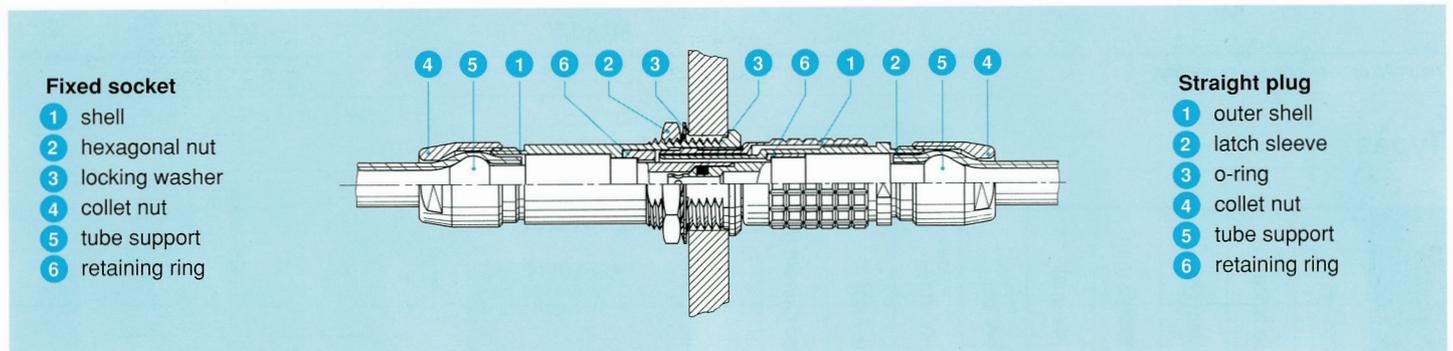
### Monofluidic (Series 0B )

- FGG** Straight plug with key (G) or keys (code A...M) and cable collet
- PHG** Free socket with key (G) or keys (code A...M) and cable collet
- PKG** Fixed socket, nut fixing, with key (G) or keys (code A...M) and cable collet

### Multifluidic and mixed (Series 2B – 3B)

- EGG** Fixed socket, nut fixing, with key (G) or keys (code A...M)
- FGG** Straight plug with key (G) or keys (code A...M) and cable collet
- PHG** Free socket with key (G) or keys (code A...M) and cable collet
- PKG** Fixed socket, nut fixing, with key (G) or keys (code A...M) and cable collet

## Part section showing internal components (Monofluidic - Series 0B)



## Technical characteristics

### Material and treatments

Component	Material (Standard)	Surface treatment (µm)			
		Cu	Ni	Cr	Au
Outer shell and collet nut	Brass (UNS C 38500)	0.5	3	0.3	
	Aluminium (AISI 6012)	anodized			
Latching sleeve	Special brass	0.5	3		
Tube support	Brass (UNS C 38500)	0.5	3		
Retaining ring	Brass (UNS C 38500)	0.5	3		
Locking washer	Bronze (UNS C 52100)	0.5	3		
Insulator	PEEK				
	PBT				
Male contact	Brass (UNS C 38500)	0.5	3		1.5
Female contact	Bronze (UNS C 54400)	0.5	3		2.0
O-ring	Silicone rubber				

### Mechanical and climatical

Characteristics	Unit	Series			
		00	0B	2B	3B
Max. working pressure	bar	2	2	0.5	0.5
Endurance	cycles	> 1000			
Operating temperature	°C	- 15 + 30 (+ 5°F + 86°F)			

### Recommended tube material

- Soft Tecalan® TTF type, polyamide 11
- Soft Tecalan® STS type, polyamide 12 or polyethylene LD

The surface treatment standards are as follows:

- Nickel FS-QQ-N-290A
- Chrome FS-QQ-C-320B

## Part number example

**FGG 0B 010 C Z Z N 50**

**Model:** see below

**Series:** 00 / 0B-2B-3B

**Type:** page 78

**Housing:**

C = chrome plated brass  
L = anodized aluminium<sup>3)</sup>

**Insulator:**

L = PEEK  
N = PBT  
Z = without insulator<sup>1)</sup>

**Variant<sup>3)</sup>**

**Ø Tube or collet:**  
page 78

**Fixing type:** page 78  
D = cable collet  
N = tube support

**Contact type:**

A = male solder  
C = male crimp  
L = female solder  
M = female crimp  
Z = without contact<sup>2)</sup>

FGG.0B.010.CZZN50 Straight plug with key (G), 0B series, monofluidic type fitted with one fluidic tube, chrome plated brass outer housing, nickel plated brass tube support for a 5.0 mm OD tube.

Note:

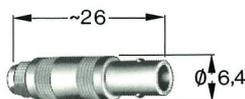
- 1) For monofluidic (010) types only
- 2) For monofluidic (010) and multifluidic (040) types only.

3) The 'variant' position of the part number is used to indicate the anodizing colour of aluminium shells. The colours available and their corresponding reference letters are to be found on the inside front cover of this catalogue.

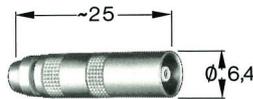
## Models

### Series 00

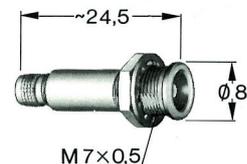
FFA



PCA

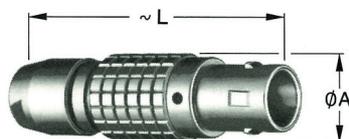


PSA

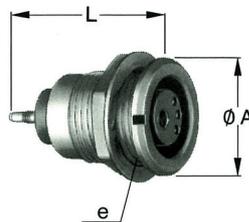


### Series B

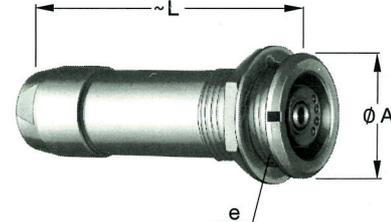
FGG



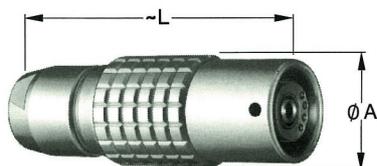
EGG



PKG



PHG



Model	Dim.	Series		
		0B	2B	3B
FGG	A	9.5	15.0	18.0
	L	36.0	49.0	59.0
EGG	A	—	18.0	22.0
	e	—	M15x1	M18x1
PHG	A	9.5	—	19.0
	L	35.0	—	56.0
PKG	A	10.0	—	22.0
	e	M9x0.6	—	M18x1
	L	35.5	—	56.0

Note: All dimensions are in millimetres

## Types

### Fluidics and Mixed: Fluidics + LV



Reference	Series	Fluidics						Low voltage						Fixing Type	Tube or collet Ø <sup>2)</sup>	Collet Part Number
		Tube No	Ext. Ø of tube	Int. Ø of tube	Int. Ø of cont	Max. working pressure (bar)	Contact No	Contact Ø	Us (kV rms) <sup>3)</sup>	Us (kV dc) <sup>3)</sup>	Ue (kV rms)	Ue (kV dc)	Rated Cur. (A)			
010	00	1	2.2	1.4	0.9	2.0	-	-	-	-	-	-	-	N	22	FFA.00.727.CN
010	00	1	3.2	1.9	0.9	2.0	-	-	-	-	-	-	-	N	32	FFA.00.731.CN
010	0B	1	5.0	4.0	1.6	2.0	-	-	-	-	-	-	-	N	50	-
012	2B	1	2.6	2.2	1.3	0.5	4	0.9	0.33	0.50	1.0	1.50	8	D	1)	-
013	2B	1	3.6	3.2	1.6	0.5	6	0.7	0.40	0.60	1.2	1.80	5	D	1)	-
015	2B	1	2.6	2.2	1.3	0.5	10	0.7	0.33	0.50	1.0	1.50	4	D	1)	-
022	3B	2	2.6	2.2	1.3	0.5	4	0.9	0.40	0.60	1.2	1.80	8	D	1)	-
023	3B	2	2.6	2.2	1.3	0.5	6	0.9	0.40	0.60	1.2	1.80	8	D	1)	-
025	3B	2	2.6	2.2	1.3	0.5	10	0.7	0.20	0.28	0.6	0.85	5	D	1)	-
040	3B	4	2.0	1.6	0.7	0.5	-	-	-	-	-	-	-	D	1)	-
042	3B	4	2.0	1.6	0.7	0.5	4	0.7	0.20	0.28	0.6	0.85	5	D	1)	-
026	4B	2	2.6	2.2	1.3	0.5	12	0.9	0.40	0.60	1.2	1.80	4	D	1)	-
028	4B	2	2.6	2.2	1.3	0.5	16	0.9	0.40	0.60	1.2	1.80	4	D	1)	-
049	4B	4	2.6	2.2	1.3	0.5	9	0.7	0.33	0.50	1.0	1.50	3	D	1)	-

1) Refer to the table of series B collets on page 22 for the diameters of the collets

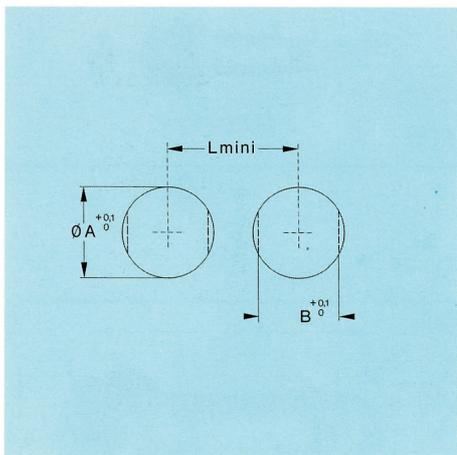
2) For monofluidic connector types, this diameter indicates the outside diameter of the fluidic tube being fitted.

3) See **WARNING** on page 21

Note: All dimensions are in millimetres

## Cut-out and mounting nut torque

### Panel cut-out



Series	Dimensions			Torque (Nm)
	A	B	L	
00	7.1	6.4	11.5	2
0B	9.1	8.3	13.6	5
2B	15.1	13.6	21.5	12
3B	18.2	16.7	27.0	18

1N = 0.102 Kg

Note: All dimensions are in millimetres

Other accessories and tooling are available for the fluidic 00 and B series connectors. Refer to the corresponding sections.