

P1/P3 FLUIDIC CONTACT WITH VALVE



Precision modular connectors to suit your application

Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

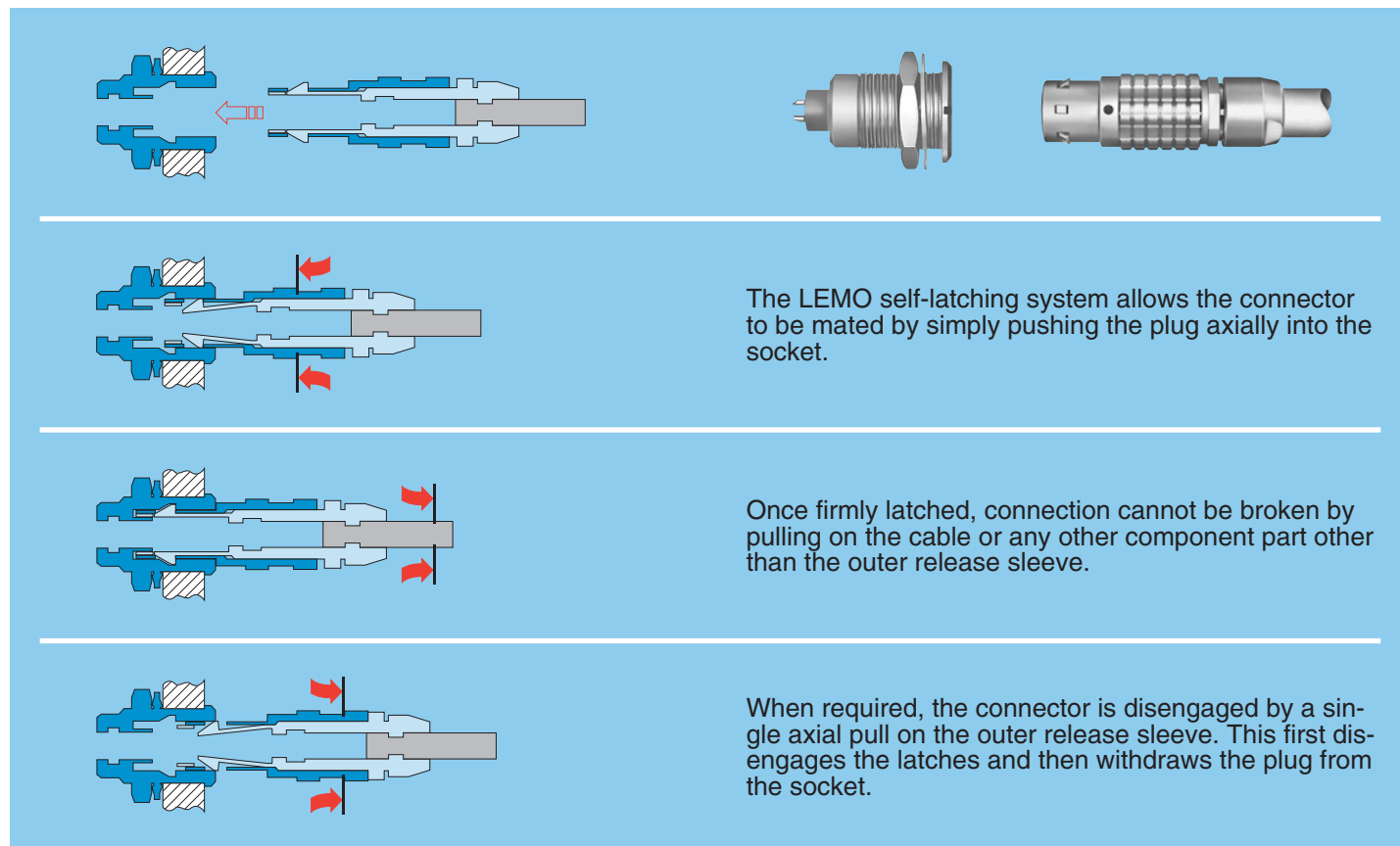
Over 50'000 connectors

The modular design of the LEMO range provides over 50'000 connectors from miniature $\varnothing$ 3 mm to $\varnothing$ 50 mm, capable of handling cable diameters up to 30 mm and for up to 114 contacts.

This vast portfolio enables you to select the ideal connector configuration to suit almost any specific requirement in most markets, including medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military.

LEMO's Push-Pull Self-Latching Connection System

This self-latching system is renowned worldwide for its easy and quick mating and unmating features. It provides absolute security against vibration, shock or pull on the cable, and facilitates operation in a very limited space.



UL Recognition

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are approved.

CE marking

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

RoHS

LEMO connector specifications exceed the requirements of the RoHS directives (2002/95/EC) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe. LEMO guarantees that its connectors are free of mercury, cadmium, lead, hexavalent chromium and polybromide biphenyl (PBB), polybromide diphenyl ether (PBDE), or DecaBDE.

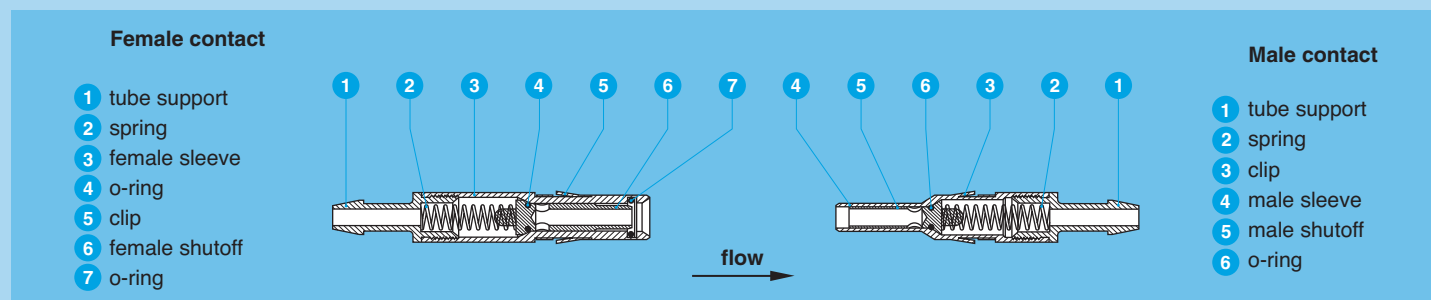
P1/P3 Fluidic contact with valve

The P1 fluidic contact is designed to fit multi fluid connectors or mixed fluid/electrical connectors from 2B to 5B and 2K to 5K series. This new design includes a shut-off valve. It fits into all insert cavities that already accept the LEMO coaxial type «C» of contact. The P3 fluidic contact is designed to fit multi fluid connectors of the 5B and 5K series.

Its main features are:

- contacts with shut-off valve
 - maximum working pressure 6 bars
 - stainless alloy body
 - after mounting on tube, the contact is installed in the main insulator and retained with a metallic clip.
- The contact is fitted with FPM o-ring, it can be used with liquids or gas.

Part Section Showing Internal Components



Technical Characteristics

Material and Treatment

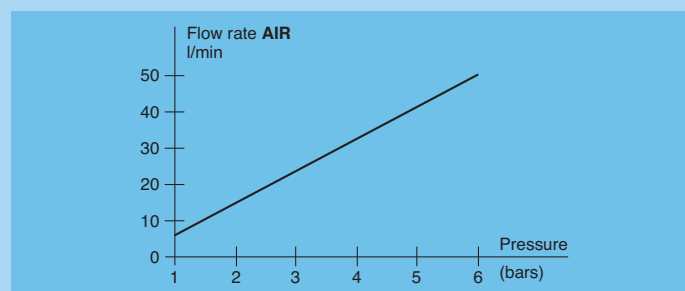
Components	Value
Body	Stainless steel
Valve	Alloy CuNiZn
Spring	Stainless steel
Clips	CuBe
O-ring	FPM

Mechanical and Environmental

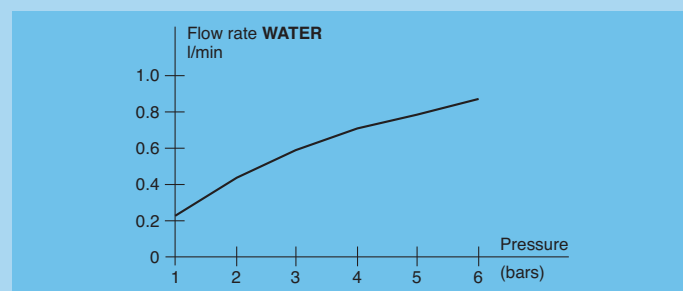
Characteristics	Value	Cont. type	Standard
Mating durability	1000 cycles	P1/P3	IEC 60512-5 test 9a
Temperature range	-20°C, +125°C	P1/P3	
Max. working pressure	6 bars	P1/P3	
Air flow rate at 6 bars	50 l/min	P1	
Water flow rate at 6 bars	0.80 l/min	P1	
Air flow rate at 6 bars	210 l/min	P3	
Water flow rate at 6 bars	4.20 l/min	P3	

Note: flow direction is always from female contact to male contact.

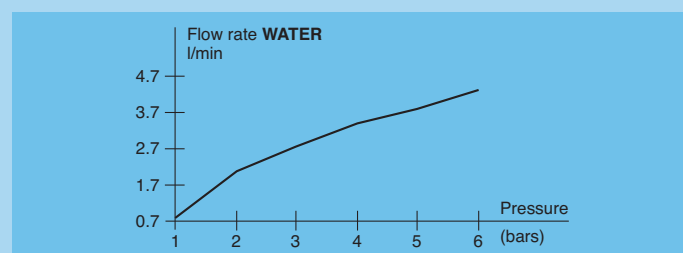
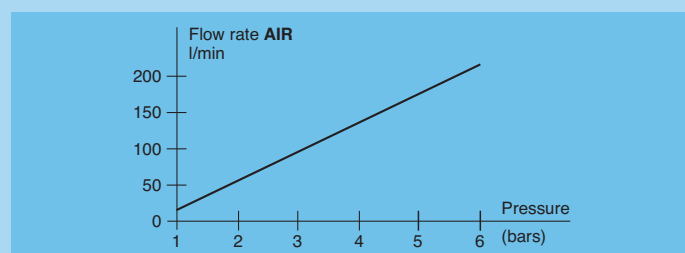
Flow/pressure diagram P1 contact type



Note: test carried out with a 2 mm inner diameter tube.



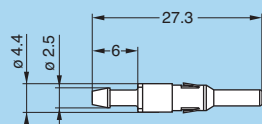
Flow/pressure diagram P3 contact type





Model - Fluidic Contact Type

P1 contacts

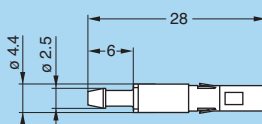


FGG.P1 Male fluidic contact with valve

Part number

FGG.P1.150.ACV

Note: Connectors are delivered without the P1 contacts.



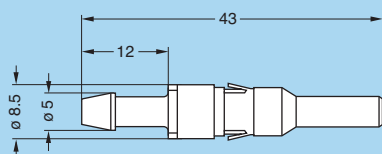
EGG.P1 Female fluidic contact with valve

Part number

EGG.P1.150.ACV

Note: Connectors are delivered without the P1 contacts.

P3 contacts

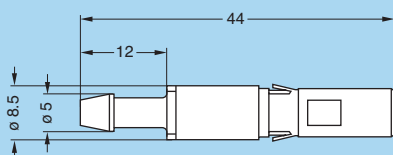


FGG.P3 Male fluidic contact with valve

Part number

FGG.P3.300.ACV

Note: Connectors are delivered without the P3 contacts.



EGG.P3 Female fluidic contact with valve

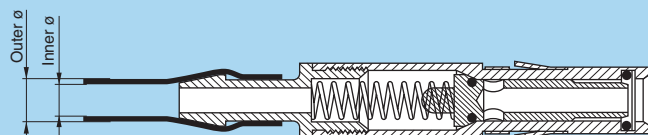
Part number

EGG.P3.300.ACV

Note: Connectors are delivered without the P3 contacts.

Recommended tubing/hose

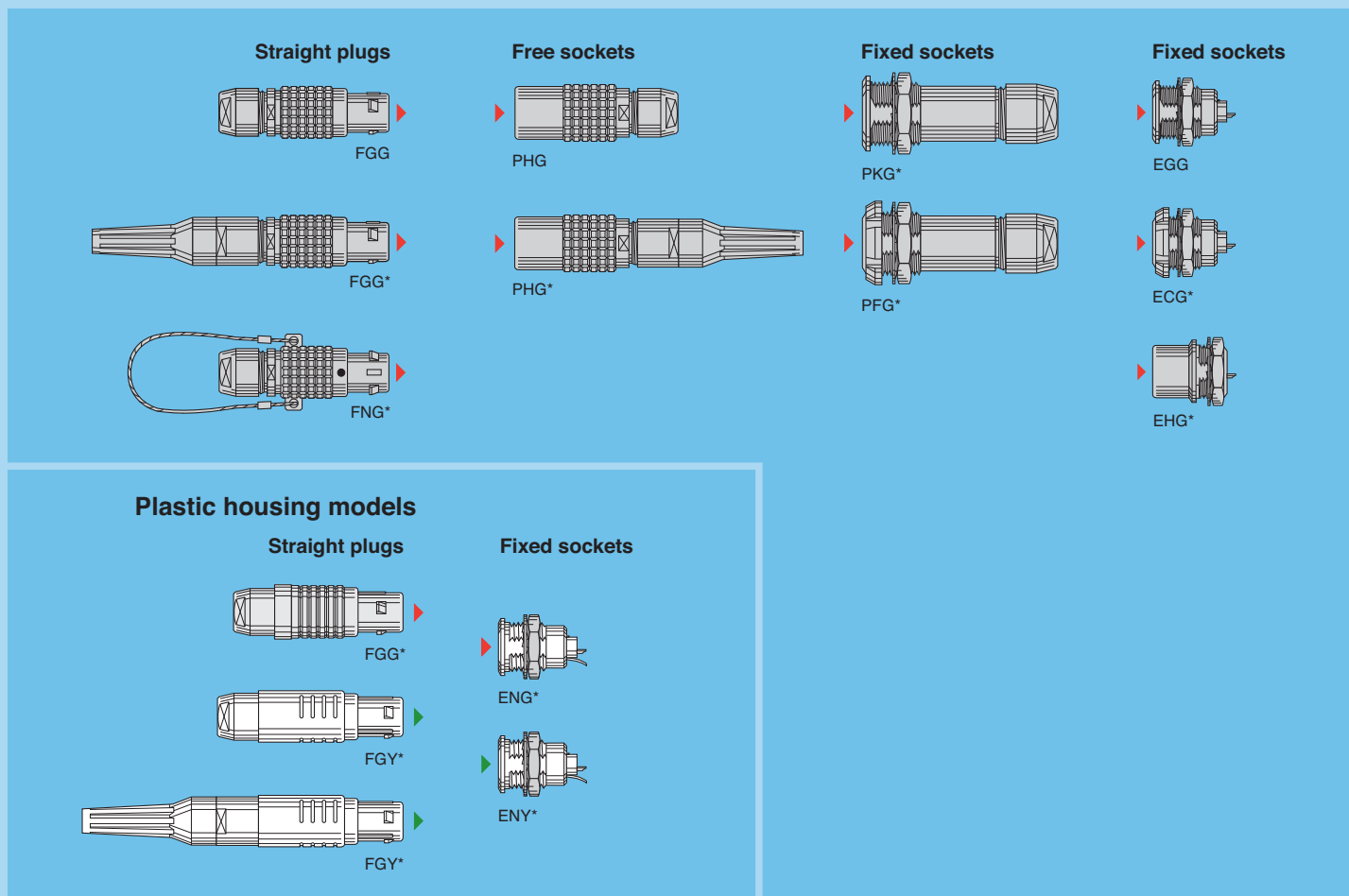
Series	Contact type	Diameter (mm)		Supplier	Material	Colour	Working temperature
		Outer ø	Inner ø				
2B, 3B, 2K, 3K	P1	4.0	2.0	Legris 1100P0400	Polyamide (nylon)	White	-20° C to 80° C
2B, 3B, 2K, 3K		4.0	2.0	Legris 1100P0401	Polyamide (nylon)	Black	-20° C to 80° C
2B, 3B, 4B, 5B		3.0	1.8	Legris 1025U030118	Polyurethane	Black	-20° C to 70° C
2K, 3K, 4K, 5K		3.0	1.8	Legris 1025U030118	Polyurethane	Black	-20° C to 70° C
5B, 5K	P3	6.0	4.0	Legris 1100P0601	Polyamide (nylon)	Black	-20° C to 80° C



2B-5B Series

The P1 fluidic contact has been designed to work in the 2B to 5B series. The P3 contact has been designed to work in the 5B series. The main features of these series are as follows:

- security of the LEMO Push-Pull self-latching system
 - the alignment key (G, A...F, Y and R) ensures excellent repeatability of performance during frequent matings
 - the P1 fluid contact allows hybrid configuration in the 2B series and multi fluid up to 10 channels in the 5B series.
- The possible outer cable diameters range from 4.0 to 25 mm.



Model Description

ECG Fixed socket, with two nuts, key (G) or keys (A...F and R), (back panel mounting)

EGG Fixed socket, nut fixing, key (G) or keys (A...F and R)

EHG Fixed socket, nut fixing, key (G) or keys (A...F and R) with visible shell

ENG Fixed socket with grounding tab, nut fixing, key (G), PEEK outer shell

ENY Fixed socket with grounding tab, nut fixing, keys (Y), PSU or PPSU outer shell

FGG Straight plug, key (G) or keys (A...F and R) and cable collet

FGG Straight plug, key (G) or keys (A...F) cable collet and nut for fitting a bend relief

FGG Straight plug, key (G), cable collet, PEEK outer shell

FGY Straight plug, keys (Y), cable collet and PSU or PPSU outer shell

FGY Straight plug, keys (Y), cable collet and PSU or PPSU outer shell and nut for fitting a bend relief

FNG Straight plug, key (G) or keys (A...F and R) and cable collet with lanyard release

PFG Fixed socket, with two nuts, key (G) or keys (A...F and R) and cable collet (back panel mounting)

PHG Free socket, key (G) or keys (A...F and R) and cable collet

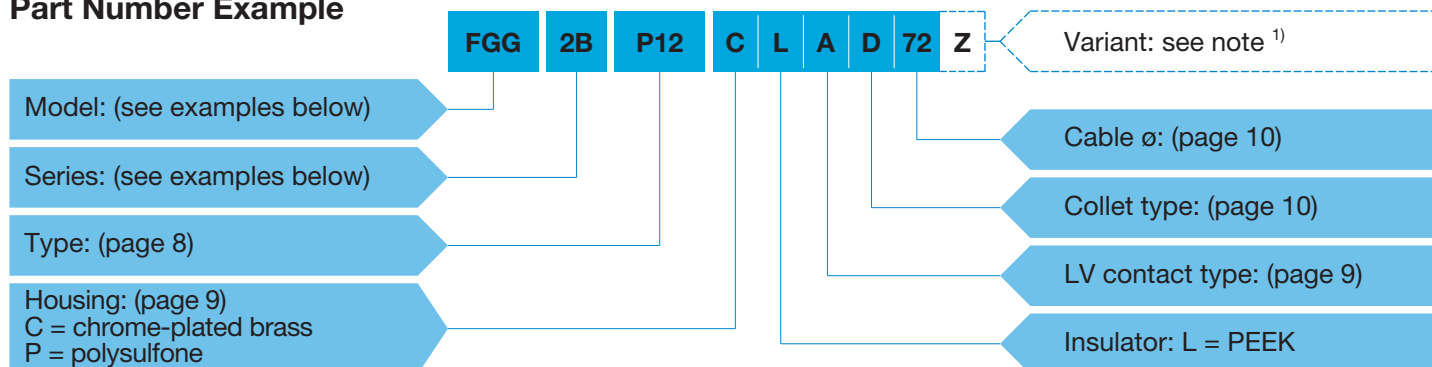
PHG Free socket, key (G) or keys (A...F) and cable collet and nut for fitting a bend relief

PKG Fixed socket, nut fixing, key (G) or keys (A...F and R) and cable collet

* Not show in this catalogue. Refer to our catalogue unipole-multipole

Certain models and certain alignment key may not be available in all series. Please consult us.

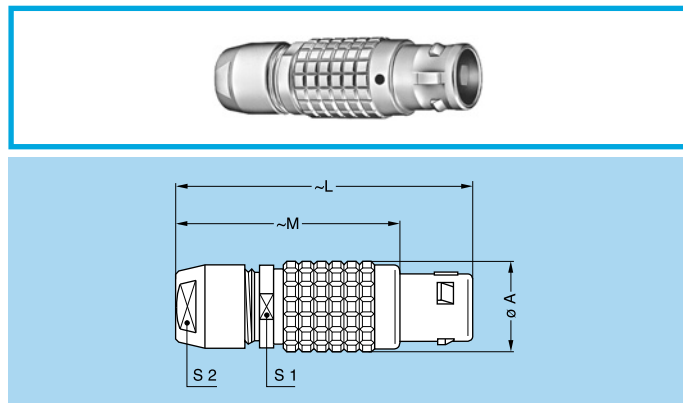
Part Number Example



FGG.2B.P12.CLAD72Z = Straight plug with key (G), 2B series, mixed type to accept one P1 fluid contact and 4 low voltage electrical contacts, chrome-plated brass housing, PEEK insulator, 4 male solder electrical contacts, type D collet system to suit a 6.1 to 7.0 mm diameter cable, and a nut for fitting a bend relief.

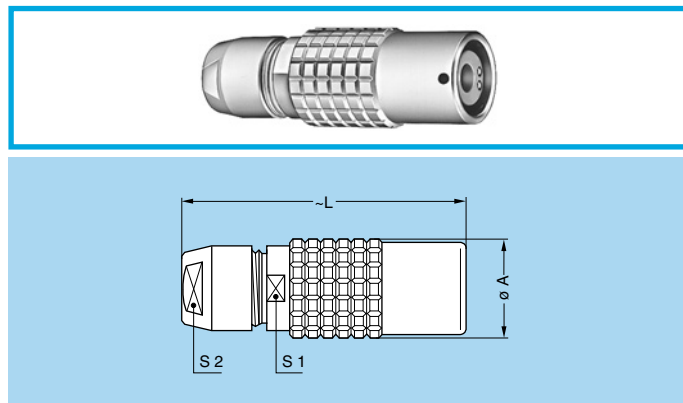
Note: Connectors are always delivered without fluidic contact.

¹⁾ The «Variant» position in the reference is used to indicate the presence of a collet nut for fitting the bend relief. The bend relief must be ordered separately (see page 12).



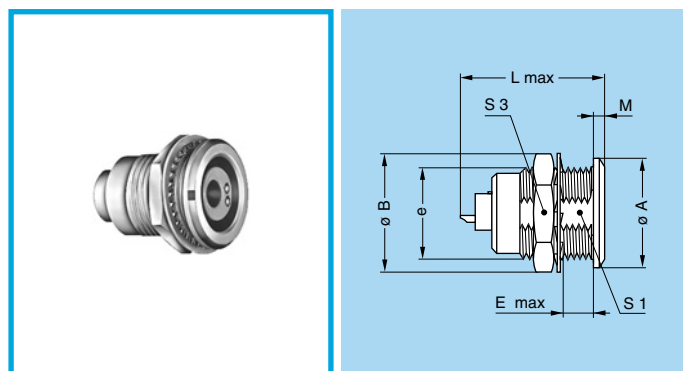
FGG Straight plug, key (G) or keys (A...F and R) and cable collet

Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FGG	2B	15	50	38	13	12
FGG	3B	18	58	43	15	14
FGG	4B	25	75	57	21	20
FGG	5B	35	103	78	31	30



PHG Free socket, key (G) or keys (A...F and R) and cable collet

Reference		Dimensions (mm)			
Model	Series	A	L	S1	S2
PHG	2B	16.5	47.0	13	12
PHG	3B	19.0	56.0	15	14
PHG	4B	24.4	73.0	21	20
PHG	5B	34.2	99.0	31	30



EGG Fixed socket, nut fixing, key (G) or keys (A...F and R)

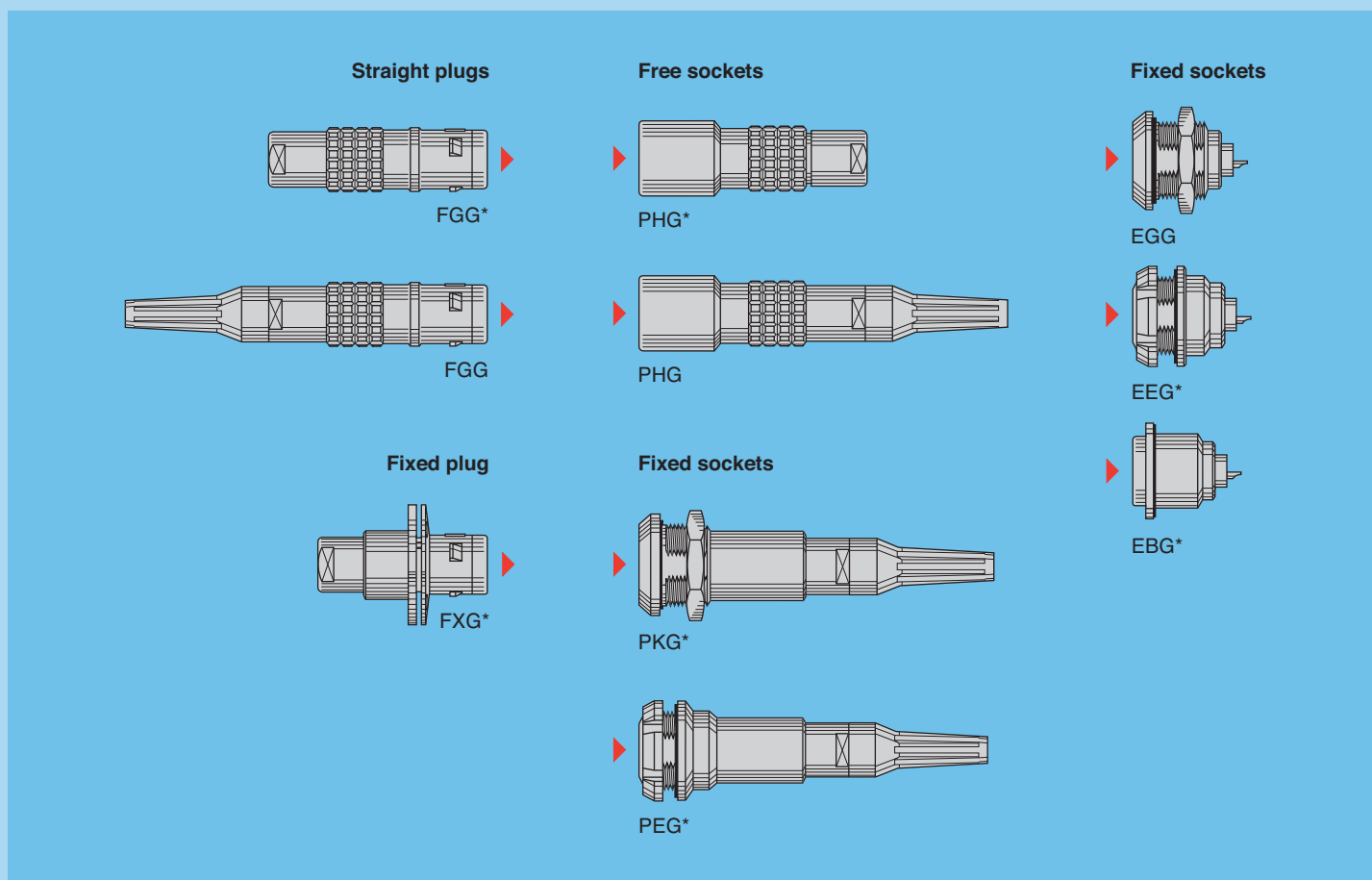
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
EGG	2B	18	19.2	M15x1.0	8.5	28.8	1.8	13.5	17
EGG	3B	22	25.0	M18x1.0	11.5	30.0	2.0	16.5	22
EGG	4B	28	34.0	M25x1.0	12.0	34.5	2.5	23.5	30
EGG	5B	40	40.0	M35x1.0	11.0	36.5	3.0	33.5	—
EGG	5B ¹⁾	40	40.0	M35x1.0	11.0	45.9	3.0	33.5	—

Note: ¹⁾ with P3 contact.

2K-5K Series

The P1 fluidic contact has been designed to work in the 2K-5K series. The P3 contact has been designed to work in the 5K series. The main features of these series are as follows:

- security of the LEMO Push-Pull self-latching system
 - specially designed for outdoors applications. All these models are waterproof when mated and reach a protection index of IP 66-IP 68, according to the IEC 60529 standard
 - the alignment key (G, A...F and R) ensures excellent repeatability of performance during frequent matings
 - the P1 fluidic contact allows hybrid configuration in the 2K series and multi fluid up to 10 channels in the 5K series.
- The 2K-5K series consists of ten models which will accept outer cable diameters ranging from 2.6 mm to 23.5 mm.



Model Description

EBG Fixed socket with square flange, key (G) or keys (A...F and R), four holes fixing

EEG Fixed socket, nut fixing, key (G) or keys (A...F and R) (back panel mounting)

EGG Fixed socket, nut fixing, key (G) or keys (A...F and R)

FGG Straight plug, key (G) or keys (A...F and R), cable collet

FGG Straight plug, key (G) or keys (A...F and R), cable collet

FXG Fixed plug with round flange, four holes fixing, key (G) or keys (A...F and R)

PEG Fixed socket, nut fixing, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief (back panel mounting)

PHG Free socket, key (G) or keys (A...F and R), cable collet

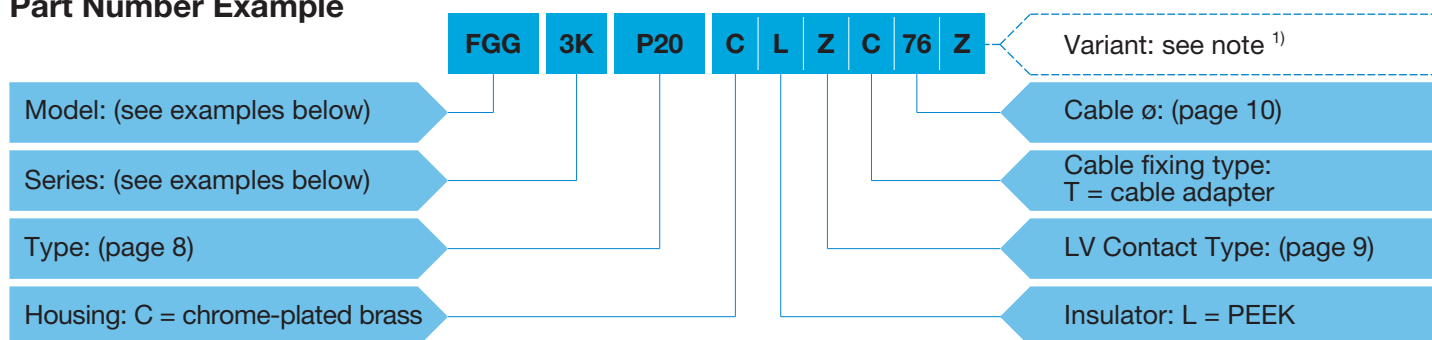
PHG Free socket, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief

PKG Fixed socket, nut fixing, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief

* Not show in this catalogue. Refer to our catalogue unipole-multipole

Certain models and certain alignment key may not be available in all series. Please consult us.

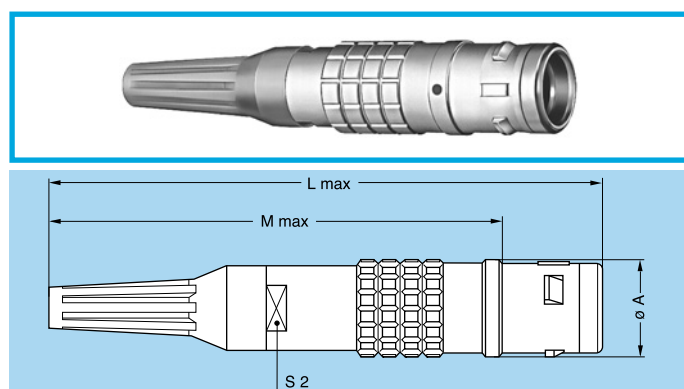
Part Number Example



FGG.3K.P20.CLZC76Z = Straight plug with key (G), 3K series, multi fluid with 2 times P1 contacts, chrome-plated brass housing, PEEK insulator, C type collet for 7.5 mm diameter cable, and nut for fitting a bend relief.

Note: Connectors are always delivered without fluidic contact.

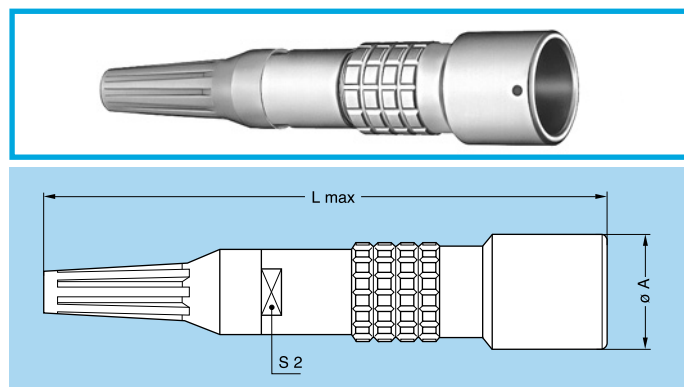
¹⁾ The «Variant» position in the reference is used to indicate the presence of a collet nut for fitting the bend relief. The bend relief must be ordered separately (see page 12).



FGG Straight plug, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief

Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FGG	2K	16	101	85.0	12
FGG	3K	19	109	89.0	15
FGG	4K	25	131	110.5	19
FGG	5K	38	160	135.0	30

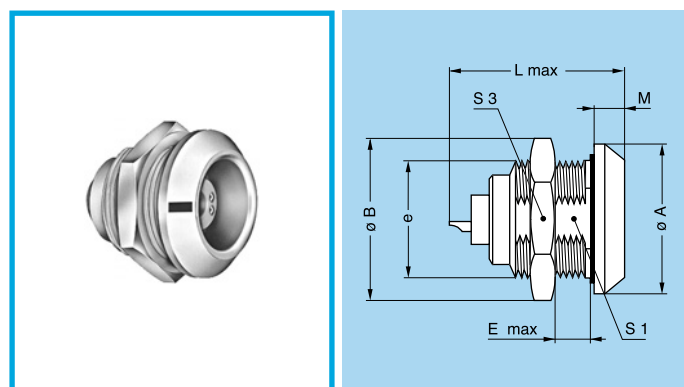
Note: The overall length dimension is with Desmopan bend relief



PHG Free socket, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief

Reference		Dimensions (mm)		
Model	Series	A	L	S2
PHG	2K	19	103.0	12
PHG	3K	23	113.0	15
PHG	4K	29	135.5	19
PHG	5K	42	164.0	30

Note: The overall length dimension is with Desmopan bend relief



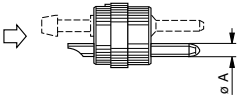
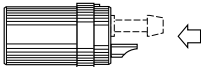
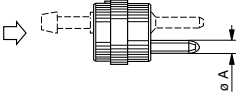
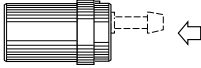
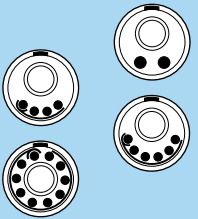
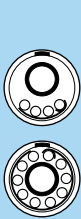
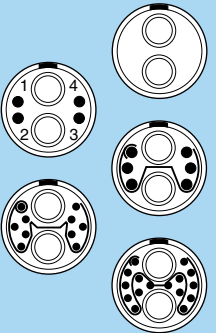
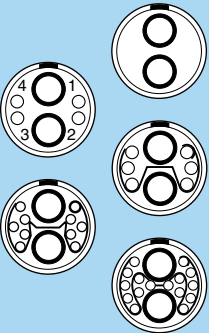
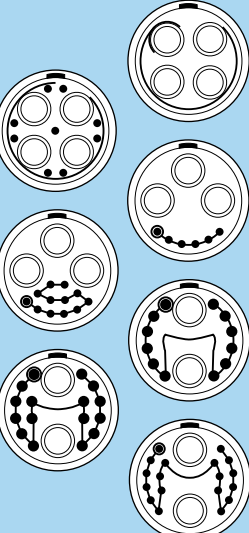
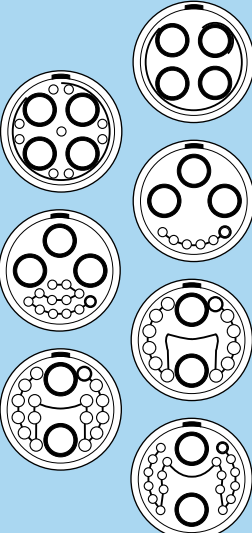
EGG Fixed socket, nut fixing, key (G) or keys (A...F and R)

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
EGG	2K	25	27.0	M20x1.0	9	32.8	5.0	18.5	24
EGG	3K	31	34.0	M24x1.0	11	35.5	6.0	22.5	30
EGG	4K	37	40.5	M30x1.0	9	37.0	6.5	28.5	36
EGG	5K	55	54.0	M45x1.5	10	40.5	9.0	42.5	—



Insert configuration

Multi fluid and Mixed fluid + LV

				Reference	Fluidic contact					Low Voltage contact									
					Nb of fluidic tube	Type	Ext. ø of tube (see page 3)	Int. ø of tube (see page 3)	Max. working pressure (bars)	Contact No	ø A (mm)	Contact type		Solder contact		Crimp contact		Rated current (A)	
												Solder	Crimp	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell		
	 Male solder contacts	 Female solder contacts																	
	 Male crimp contacts	 Female crimp contacts																	
2B 2K					P11	1	P1	3.0 4.0	1.8 2.0	6	2	0.9	●	●	1.75	1.60	1.85	1.60	9.0
					P12	1	P1	3.0 4.0	1.8 2.0	6	4	0.7	●	●	0.85	1.20	0.85	1.25	6.0
					P13	1	P1	3.0 4.0	1.8 2.0	6	6	0.7	●	●	0.85	1.20	0.85	1.25	6.0
					P15	1	P1	3.0 4.0	1.8 2.0	6	10	0.7	●	●	1.15	1.35	1.30	1.05	6.0
3B 3K					P20	2	P1	3.0 4.0	1.8 2.0	6	-	-	-	-	-	-	-	-	-
					P22	2	P1	3.0 4.0	1.8 2.0	6	4	0.9	●	●	1.20	1.05	1.00	0.80	8.0
					P23	2	P1	3.0 4.0	1.8 2.0	6	6	0.9	●	●	1.20	1.05	1.00	0.80	8.0
					P25	2	P1	3.0 4.0	1.8 2.0	6	10	0.7	●	●	0.95	0.75	0.85	0.65	6.0
					P28	2	P1	3.0 4.0	1.8 2.0	6	16	0.7	●	●	0.80	0.70	0.80	0.75	5.5
4B 4K					P40	4	P1	3.0	1.8	6	-	-	-	-	-	-	-	-	-
					P49	4	P1	3.0	1.8	6	9	0.7	●	●	1.00	1.00	0.80	0.80	8
					P33	3	P1	3.0	1.8	6	6	0.7	●	●	0.90	0.95	0.80	0.80	8
					P36	3	P1	3.0	1.8	6	12	0.7	●	●	0.90	0.95	0.80	0.80	6
					P26	2	P1	3.0	1.8	6	12	0.9	●	●	0.95	0.85	0.90	1.20	10
					P28	2	P1	3.0	1.8	6	16	0.9	●	●	0.95	0.85	0.85	0.85	10
					P29	2	P1	3.0	1.8	6	18	0.7	●	●	0.90	0.95	0.85	0.75	8



Collets (B and K series)

D and M type collets for B series

D type



M type



	Reference		Cable ø		Notes
	Type	Code	max.	min.	
2B	D	42	4.2	> 3.2	
	D	52	5.2	> 4.2	
	D	62	6.2	> 5.2	
	D	72	7.2	> 6.2	
	D	82	8.2	> 7.2	
	D	92	9.2	> 8.2	
	D	99	9.9	> 9.2	1)
3B	M	52	5.2	> 4.2	
	D	62	6.2	4.9	
	D	72	7.7	> 6.2	
	D	92	9.2	> 7.7	
	D	10	10.7	> 9.2	
	D	12	11.9	> 10.7	1)

	Reference		Cable ø		Notes
	Type	Code	max.	min.	
4B	M	62	6.0	5.1	
	M	72	7.0	6.1	
	M	82	8.0	7.1	
	M	92	9.0	8.1	
	D	10	10.5	9.1	
	D	12	12.0	10.6	
	D	13	13.5	12.1	
	D	15	15.0	13.6	
	D	16	16.0	15.1	1)
5B	D	11	11.5	9.6	
	D	13	13.5	11.6	
	D	15	15.5	13.6	
	D	17	17.5	15.6	1)
	D	19	19.5	17.6	1)
	D	21	21.5	19.6	1)
	D	23	23.5	21.6	1)
	D	25	25.0	23.6	1)

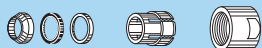
Note: all dimensions are in millimetres.

¹⁾ these collets cannot be used for connector models with nut for fitting a bend relief.



C and K type collets for K series

C type



K type

oversize
cable collet



	Reference		Cable ø	
	Type	Code	max.	min.
2K	C	40	4.2	3.0
	C	50	5.2	> 4.2
	C	60	6.2	> 5.2
	C	70	7.2	> 6.2
	C	80	8.2	> 7.2
	C	85	9.2	> 8.2
	K	90	10.2	> 8.7
	K	95	10.2	> 8.7
	K	10	10.2	> 8.7
	K	11	11.2	> 10.2
3K	C	40	4.2	2.7
	C	50	5.7	> 4.2
	C	70	7.2	> 5.7
	C	80	8.7	> 7.2
	C	10	10.2	> 8.7
	C	11	11.2	> 10.2
	K	11	12.0	10.6
	K	12	12.8	12.1
	K	13	13.5	12.9
	K	14	14.0	13.6
4K	C	50	5.0	4.6
	C	55	5.5	5.1
	C	60	6.0	5.6
	C	65	6.5	6.1
	C	70	7.0	6.6
	C	75	7.5	7.1
	C	80	8.0	7.6
	C	85	8.5	8.1
	C	90	9.0	8.6
	C	95	9.5	9.1
	C	10	10.5	9.6
	C	11	12.0	10.6
	C	12	12.8	12.1
	C	13	13.5	12.9
	C	14	14.0	13.6
	C	15	15.0	14.1

	Reference		Cable ø	
	Type	Code	max.	min.
4K	K	16	16.5	15.6
	K	17	17.5	16.6
	K	18	18.5	17.6
	K	19	19.5	18.6
	K	20	20.5	19.6
	K	21	21.5	20.6
	K	22	22.5	21.6
	K	23	23.5	22.6
5K	C	10	10.5	9.6
	C	11	11.5	10.6
	C	12	12.5	11.6
	C	13	13.5	12.6
	C	14	14.5	13.6
	C	15	15.5	14.6
	C	16	16.5	15.6
	C	17	17.5	16.6
	C	18	18.5	17.6
	C	19	19.5	18.6
	C	20	20.5	19.6
	C	21	21.5	20.6
	C	22	22.5	21.6
	C	23	23.5	22.6

Note: all dimensions are in millimetres.

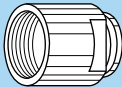
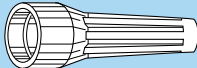
Tools

Extractor

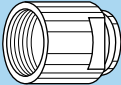
Reference	Contact type
DCC.91.10P.1LA	P1
DCC.91.10P.3LA	P3

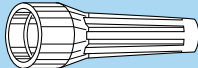
Variant (B and K series)

Bend relief for B series models with collet

		Need to be ordered						
								
	<table><tr><th rowspan="2">Ref.</th><th colspan="2">Collet</th></tr><tr><th>Type</th><th>Code</th></tr></table>	Ref.	Collet		Type	Code	<table><tr><td>Need to be ordered separately</td></tr></table>	Need to be ordered separately
Ref.	Collet							
	Type	Code						
Need to be ordered separately								
2B	Z	D 42	GMA.2B.●●●.●●					
		D 52 to 92	GMA.2B.●●●.●●					
3B	Z	M 52	GMA.1B.●●●.●●					
		D 62 to 10	GMA.3B.●●●.●●					
4B	Z	M 62 and 72	GMA.2B.●●●.●●					
		M 82 and 92	GMA.4B.●●●.●●					
		D 10 to 15	GMA.4B.●●●.●●					
5B	Z	D 11 to 15	GMA.4B.●●●.●●					

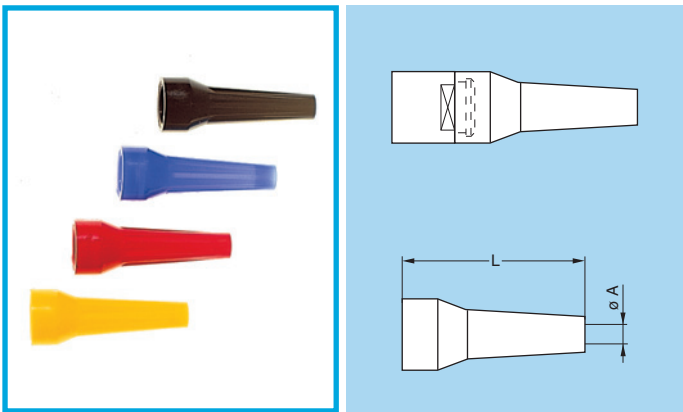
Bend relief for K series models with collet





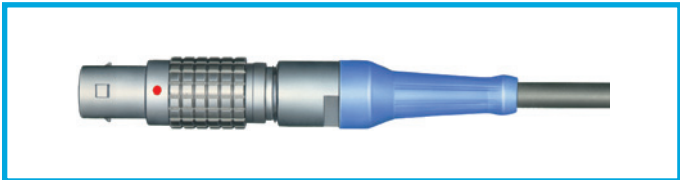
	Ref.	Collet		Need to be ordered separately
		Type	Code	
2K	Z	C	40 to 85	GMA.2B.●●●.●●
		K	90 to 10	GMA.3B.●●●.●●
3K	Z	C	40 to 10	GMA.3B.●●●.●●
		K	11 to 15	GMA.4B.●●●.●●
4K	Z	C	50 to 15	GMA.4B.●●●.●●

Note: All dimensions are in millimetres.



GM● Bend relief (Polyurethane)

A bend relief made from thermoplastic polyurethane elastomer (Desmopan 786) can be fitted over LEMO plugs and sockets that are supplied with nut for fitting such bend relief. They are available in nine different colours that match with the GRA insulating washers (see unipole-multipole catalog). Use the part numbers shown below to order this accessory separately.



Main characteristics

- Material: Polyurethane elastomer
- Temperature range in dry atmosphere: -40°C +80°C

Part number	Dimensions (mm)				Series
	Bend relief		Cable ø		
	A	L	max.	min.	
GMA.2B.040.DG	4.0	36	4.5	4.0	2B-2K
GMA.2B.045.DG	4.5	36	5.0	4.5	
GMA.2B.060.DG	6.0	36	6.5	6.0	
GMA.2B.070.DG	7.0	36	7.7	7.0	
GMA.3B.060.DG	6.0	42	6.9	6.0	3B-3K
GMA.3B.070.DG	7.0	42	7.9	7.0	
GMA.3B.080.DG	8.0	42	8.9	8.0	
GMA.4B.011.DG	11.0	60	11.9	11.0	4B-4K-5B
GMA.4B.012.DG	12.0	60	13.0	12.0	
GMA.4B.013.DG	13.5	60	14.5	13.5	

Ref.	Colour	Ref.	Colour
A	blue	N	black
B	white	R	red
G	grey	S	orange
J	yellow	V	green
M	brown		

Note: the last letter «G» of the part number indicates the grey colour of the bend relief. For ordering a bend relief with another colour, see table above and replace the letter «G» by the letter of the required colour.

Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION. IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock. Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification. Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.

3. USE

Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalog however these may be influenced by PC board design and / or wiring harnesses. The test voltage indicated in the catalog is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

6. PRODUCT IMPROVEMENTS

The LEMO Group reserves the right to modify and improve to our products or specifications without providing prior notification.

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