Monobloc bell housing

LMC series

LMC series monobloc bell housings for gear pumps are used to interconnect **UNEL-MEC frame electric motors with B3 - B5 - B14** flange, and internal gear pumps with standard rectangular flange.
Accordingly, these components can be classified as standard units in terms both of the pump flange fixing holes, and of the shaft design.
Available with or without a removable centre ring, they will cover the majority of applications within a range including in electric motors from size 63 rated 0.12 **kW**, up to size 280 rated 75 **kW**.

Technical specifications

LMC

Materials

- **Monobloc bell housing**
  Pressure diecast aluminium alloy.
- **Pump flange**
  Pressure diecast aluminium alloy.
- **Foot bracket**
  Pressure diecast aluminium alloy.
- **Damping ring**
  Vulcanized aluminium
- **Gaskets**
  Special paper (guarnital).

Temperature

- -30°C - +80°C
  For temperatures outside this range,
  contact the MP Filtri Technical and Sales Department.

Compatibility with fluids

- **Monobloc bell housing compatible for use with:**

  Mineral oils
  Types HH-LL-HM-HR-HV-HC, to ISO 6743/4 standard

  Water based emulsions
  Types HFAE – HFAS, to ISO 6743/4 standard

  Water glycol
  Type HFC, to ISO 6743/4 standard
  Ask for anodized version

Special Applications

- **Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by the MP Filtri Technical and Sales Department.**

How to use the catalogue

This catalogue provides all the technical and dimensional data needed in order to ensure the correct selection of a motor and pump combination assembled using an LMC series monobloc bell housing.

- The design of gear pumps having a standard rectangular flange is such that they can divided into “groups” (05 – 1 – 2 etc.). This means that, with a few special exceptions, a group 1 pump made by any given manufacturer will always have the same spigot, the same fixing centres and the same shaft. Accordingly, all pump options can be conveniently summarized and identified in a single reference chart (see table 12, page 18).

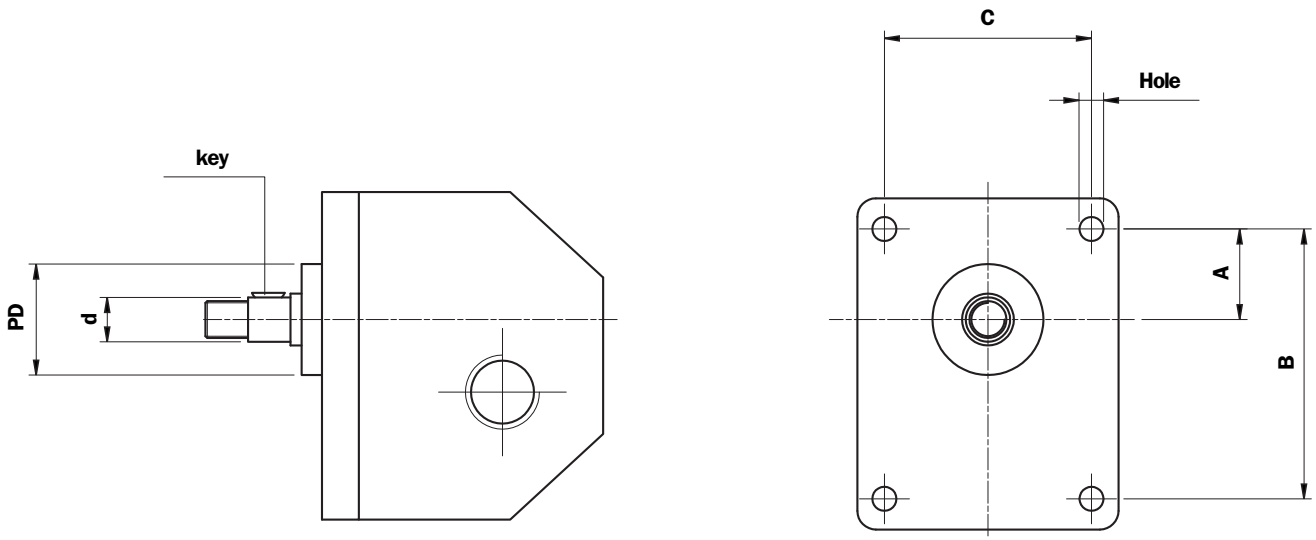
REQUIRED DATA

Power of electric motor

Model of hydraulic pump to be installed

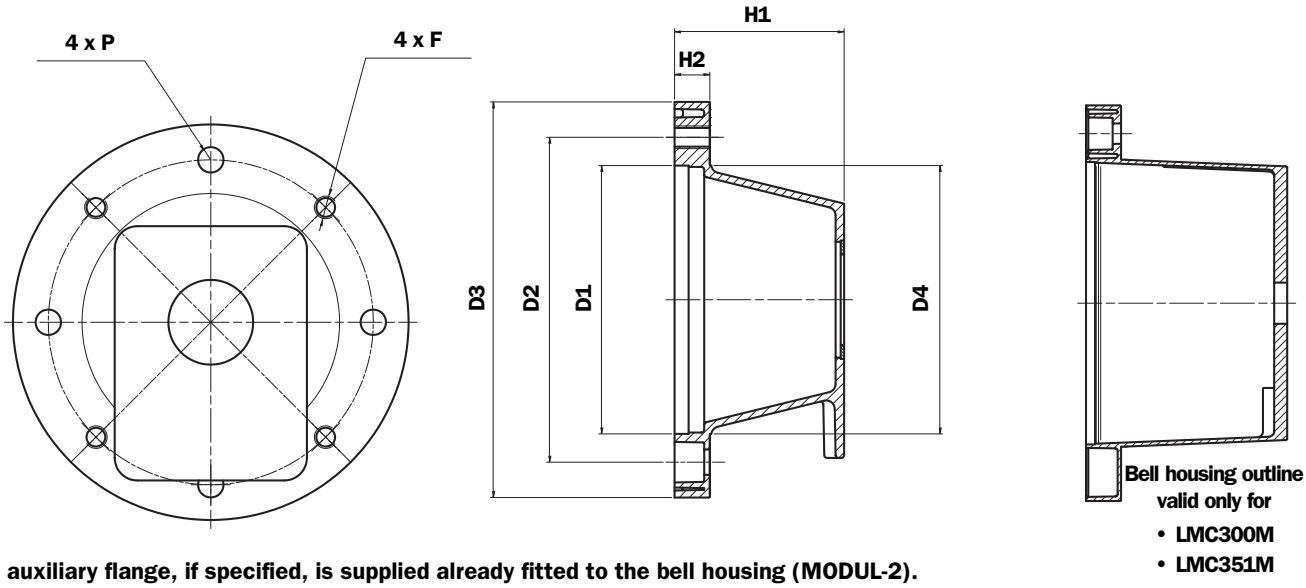
- Referring to the technical data sheet of the selected pump, check all dimensions relative to the mounting flange and all dimensions relative to the pump shaft (See illustration below).
- Identify the pump designation code (attributed by MP FILTRI).
- Referring to tables 13 -14 - 15 on pages 19 - 20 - 21, locate the required motor in the left hand column, then pick out the designation code for the pump as identified in the previous step.
- The various codes making up the designation for ordering a complete coupling kit, or single parts, will be found on the right.

Dimensions to be checked



N.B. For any couplings not covered by the tables on the following pages, contact the MP Filtri Technical and Sales Department.

Monobloc bell housing for gear pumps



The auxiliary flange, if specified, is supplied already fitted to the bell housing (MODUL-2).

N.B. The hole made in the tank cover should be 2 mm larger than dimension D4

Concentricity of D1/Spigot hole

LMC 090 - LMC 160	0,15 mm
LMC 200 - LMC 350	0,20 mm
LMC 300 - LMC 450	0,25 mm

Machining tolerances

D1	F8
Spigot hole	H7
H1	± 0.15 mm

TABLE 10

Electric motor, 4-pole, 1500 rpm - B3/B5				Dimensions of LMC monobloc bell housing										
Frame size	kW	HP	Shaft	Bell housing code	Foot bracket code	Damping ring code	D1	D2	D3	D4	H1	H2	F	P	Weight (Kg)
63	0.12-0.18	0.16-0.24	11x23	**LMC 140**	/	/	95	115	140	100		13	M8	9	0,35
63	0.12-0.18	0.16-0.24	11x23	**LMC 141**	/	/	95	115	140	100		13	M8	9	0,35
71	0.25-0.37	0.34-0.50	14x30	**LMC 160**	**PDM A 160**	/	110	130	160	110		15	M8	9	0,44
71	0.25-0.37	0.34-0.50	14x30	**LMC 161**	**PDM A 160**	/	110	130	160	110		15	M8	9	0,44
80	0.53-0.75	0.75-1	19x40	**LMC 200**	**PDM A 200**	**ANM A 200**	130	165	200	135		18	M10	11	0,68
90	1.1-1.5	1.5-2	24x50	**LMC 201**	**PDM A 200**	**ANM A 200**	130	165	200	135		18	M10	11	0,80
100-112	2.2-4	3-5.5	28x60	**LMC 250**	**PDM A 250**	**ANM A 250**	180	215	250	185		19	M12	14	1,16
132	5.5-7.5	7.5-12.5	38x80	**LMC 300**	**PDM A 300**	**ANM A 300**	230	265	300	235		23	M12	14	2,55
160	11-15	15-20	42x110	**LMC 351**	**PDM A 350**	**ANM A 350**	250	300	350	255		31	M16	18	4,90
180	18-22	25-30	48x110	**LMC 351**	**PDM A 350**	**ANM A 350**	250	300	350	255		31	M16	18	4,90
											See Table 13-15				

TABLE 11

Electric motor, 4-pole, 1500 rpm - B14				Dimensions of LMC monobloc bell housing										
Frame size	kW	HP	Shaft	Bell housing code	Foot bracket code	Damping ring code	D1	D2	D3	D4	H1	H2	F	P	Weight (Kg)
63	0.12-0.18	0.16-0.24	11x23	**LMC 090**	/	/	60	75	90	63		7	7	7	0,30
71	0.25-0.37	0.34-0.50	14x30	**LMC 105**	/	/	70	85	105	74		8	6	6	0,35
80	0.53-0.75	0.75-1	19x40	**LMC 120**	/	/	80	100	120	84		9	7	7	0,35
90	1.1-1.5	1.5-2	24x50	**LMC 141**	/	/	95	115	140	100		13	M8	9	0,51
100-112	2.2-4	3-5.5	28x60	**LMC 161**	**PDM A 160**	/	110	130	160	110		15	M8	9	0,60
											See Table 16				

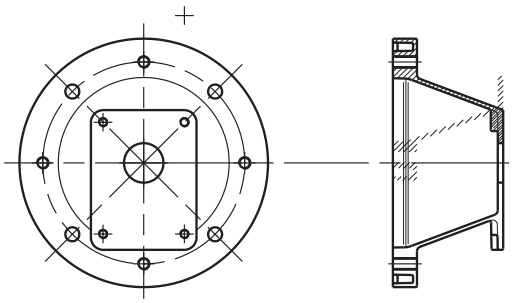
To determine dimension H1 of the bell housing — see pages 19-20-21
For dimensions of the foot bracket — see page 63
For dimensions of the damping ring — see page 64
For all other dimensions — see pump manufacturer's technical literature

N.B. For larger dimensions, contact the MP Filtri.Technical and Sales Department.

Versions

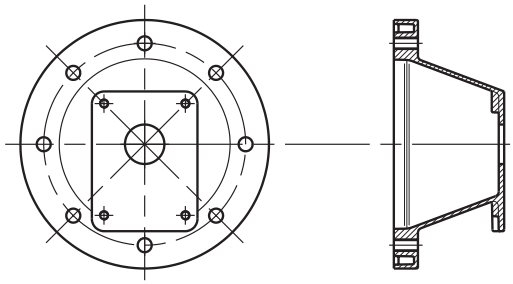
In order to ensure greater adaptability across a wide range of applications, **LMC** monobloc bell housings for gear pumps can be supplied in 4 different versions:

LMC *** 4S



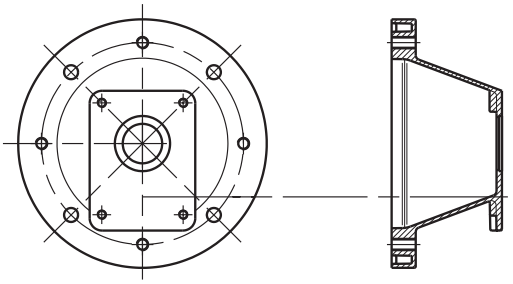
Without centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 4 clearance holes + 4 threaded holes.
Used normally for vertically mounted motor and pump units with pump submerged in the oil tank.

LMC *** 8S



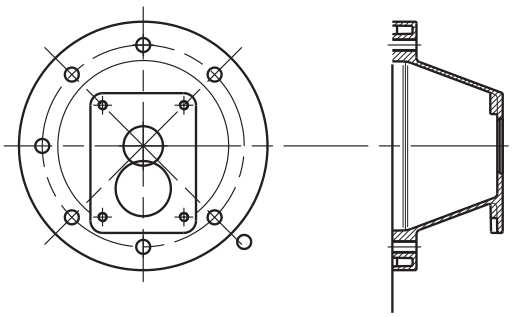
Without centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 8 clearance holes. Used normally for vertically mounted motor and pump units with pump submerged in the oil tank; allows greater flexibility for directional positioning of the hydraulic pump inside the tank, according to constructional requirements.

LMC *** 4E



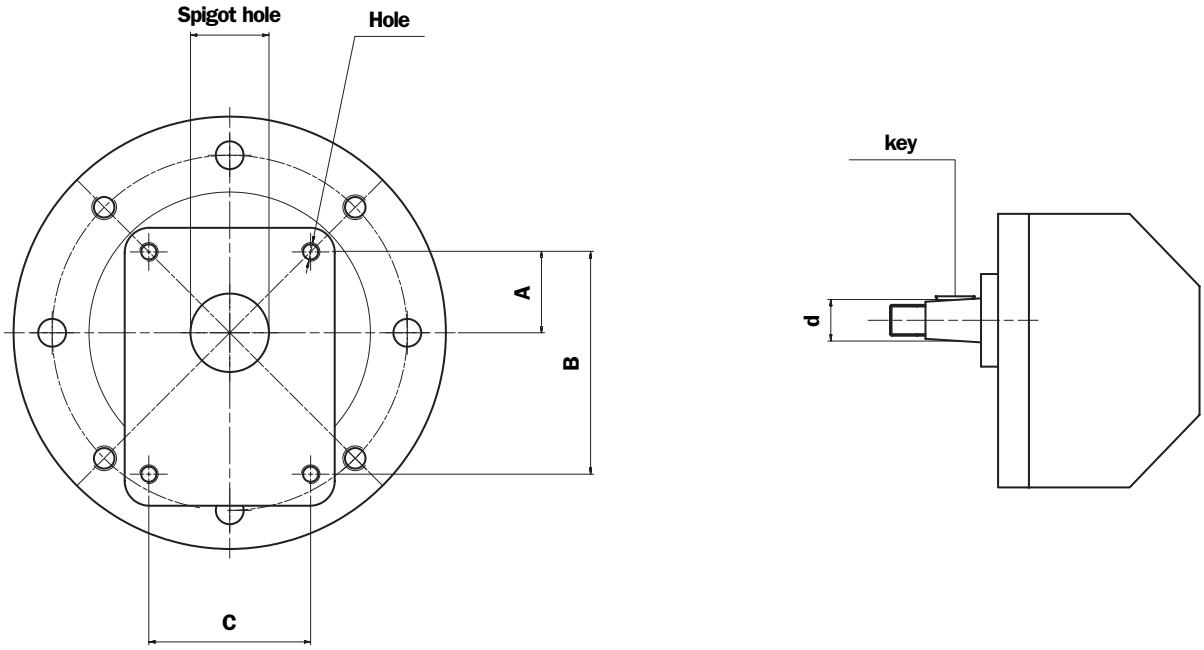
With centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 4 clearance holes + 4 threaded holes.
Normally used for motor and pump units mounted horizontally on the tank lid or on the machine, for maximum ease of maintenance.
With this type of mounting, in effect, the hydraulic pump can be removed without removing the motor.
The half coupling mounted to the shaft passes through the spigot hole.

LMC *** 8E



With centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 8 clearance holes.
Normally used for motor and pump units mounted horizontally on the tank lid or on the machine; offers maximum ease of maintenance, and enables directional positioning of the pump.
With this type of mounting, in effect, the hydraulic pump can be removed without removing the motor.
The half coupling mounted to the shaft passes through the spigot hole.

Designation of pump flange and shaft



The auxiliary flange, if specified, is supplied already fitted to the bell housing (MODUL-2).

• For technical information see "DRIVE COUPLINGS".

TABLE 12

Pump group	Spigot hole	A	B	C	Hole	Pump flange code	Shaft type	d	key	Pump half-coupling code
05	22	25.5	66	/	M6	**FS05M**	cylindrical	6	2	**FS05M**
	22	25.5	66	/	M6	**FS05C**	cylindrical	7	2	**FS05C**
1	25.4	26.2	72	52	M6	**FS100**	taper 1:8	9.7	2.4	**FS100**
	30	24.5	73	56	M6	**FS1M0**	cylindrical	12	3	**FS1C0**
	30	24.5	73	56	M6	**FS1M0**	taper 1:8	13.9	3	**FS1M0**
2	36.5	32.5	96	71.5	M8	**FS200**	taper 1:8	17.2	3.2/4	**FS200**
3	50.8	43	128	98.5	M8	**FS25T**	taper 1:8	22.2	4	**FS300**
	50.8	42	128	98.5	M10	**FS300**	taper 1:8	22.2	4	**FS300**
	50.8	43	128	98.5	M10	**FS3M0**	taper 1:8	22.2	4	**FS300**
	50.8	45	137	98.5	M10	**FS3T0**	taper 1:8	22.2	4	**FS300**
3.5	60	48.5	148	127	M12	**FS35M**	taper 1:8	25.6	4.76/5	**FS350**
	60.3	49.5	149.5	114.3	M10	**FS350**	taper 1:8	25.6	4.76/5	**FS350**
4	63.5	65	196	142.8	M12	**FS4M0**	taper 1:8	33.3	6.35/7	**FS400**
	63.5	64.3	188	143	M12	**FS400**	taper 1:8	33.3	6.35/7	**FS400**
Bosch	32	10.3	40	40	M8	**FSZBR**	taper 1:5	9.8	2	**FSZBR**
	80	34.5	100	72	M8	**FSZFR**	taper 1:5	16.9	3	**FSZFR**
	105	48	145	102	M10	**FSZGR**	taper 1:5	25.2	5	**FSZGR**

N.B. For any dimensions not indicated in Table 12, see tables 13 - 14 - 15 showing motor-pump combinations.

TABLE 13

Electric motors with B3 - B5 flange gear pumps

Electric motor, 4-pole, 1500 rpm				Components of combination						
Motor size	kW	HP	Motor shaft	Pump code	Bell housing code	H1	Motor half-coupling code	Spider code	Pump half-coupling code	Centre ring code
63	0.12 0.18	0.16 0.24	11x23	FS05M	LMC140MFS05M4S	60	SGEA01M01021	EGE 0	SGEA01FS05M	/
				FS05C	LMC140MFS05M4S				SGEA01FS05C	/
				FS100	LMC140MFS100**				SGEA01FS100	**ANC01FS100**
				FS1C0	LMC140MFS1M0**				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC140MFS1M0**				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC140MFSZBR4S				SGEA01FSZBR	/
71	0.25 0.37	0.34 0.50	14x30	FS05M	LMC160MFS05M4S	70	SGEA01M02028	EGE 0	SGEA01FS05M	/
				FS05C	LMC160MFS05M4S				SGEA01FS05C	/
				FS100	LMC160MFS100**				SGEA01FS100	**ANC01FS100**
				FS1C0	LMC160MFS1M0**				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC160MFS1M0**				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC160MFSZBR4S				SGEA01FSZBR	/
80	0.53 0.75	0.75 1	19x40	FS05M	LMC200MFS05M4S	87	SGEA01M03048	EGE 0	SGEA01FS05M	/
				FS05C	LMC200MFS05M4S				SGEA01FS05C	/
				FS100	LMC200MFS100**				SGEA01FS100	**ANC01FS100**
				FS1C0	LMC200MFS1M0**				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC200MFS1M0**				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC200MFSZBR4S				SGEA01FSZBR	/
				FS200	LMC201MFS200**	95	SGEA21M03048	EGE 2	SGEA21FS200	**ANC02FS200**
				FSZFR	LMC201MFSZFR4S				SGEA21FSZFR	/
90	1.1 1.5	1.5 2	24x50	FS05M	LMC200MFS05M4S	87	SGEA01M04048	EGE 0	SGEA01FS05M	/
				FS05C	LMC200MFS05M4S				SGEA01FS05C	/
				FS100	LMC200MFS100**				SGEA01FS100	**ANC01FS100**
				FS1C0	LMC200MFS1M0**				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC200MFS1M0**				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC200MFSZBR4S				SGEA01FSZBR	/
				FS200	LMC201MFS200**	95	SGEA21M04048	EGE 2	SGEA21FS200	**ANC02FS200**
				FSZFR	LMC201MFSZFR4S				SGEA21FSZFR	/
100 112	2.2 4	3 5.5	28x60	FS100	LMC250MFS1004S	105	SGEA21M05055	EGE 2	SGEA21FS100	/
				FS1C0	LMC250MFS1M04S				SGEA21FS1C0	/
				FS1M0	LMC250MFS1M04S				SGEA21FS1M0	/
				FSZBR	LMC250MFSZBR4S				SGEA21FSZBR	/
				FS200	LMC250MFS200**				SGEA21FS200	**ANC02FS200**
				FSZFR	LMC250MFSZFR4S				SGEA21FSZFR	/
				● FS25T	LMC250MFS25T4E	126			SGEA21FS300	**ANC0005**
				● FS300	LMC250MFS3004E				SGEA21FS300	**ANC0005**
				● FS3M0	LMC250MFS3M04E				SGEA21FS300	**ANC0005**
				● FS3T0	LMC250MFS3T04E				SGEA21FS300	**ANC0005**

● Bell housing with auxiliary flange + centre ring

N.B. The two final asterisks in the bell housing code indicate the version.
See “Order Designation” - pages 26 - 27

Table of combinations

Electric motors with B3 - B5 flange gear pumps

TABLE 14

Electric motor, 4-pole, 1500 rpm				Components of combination						
Motor size	kW	HP	Motor shaft	Pump code	Bell housing code	H1	Motor half-coupling code	Spider code	Pump half-coupling code	Centre ring code
132	5.5 7.5	7.5 10	38x80	FS100	LMC300MFS1004S	**145**	SGEA31M06077	EGE 3	SGEA31FS100	/
				FS1C0	LMC300MFS1M04S				SGEA31FS1C0	/
				FS1M0	LMC300MFS1M04S				SGEA31FS1M0	/
				FSZGR	LMC300MFSZGR4S				SGEA31FSZGR	/
				FS200	LMC300MFS200**				SGEA31FS200	**ANC03FS200**
				FSZFR	LMC300MFSZFR4S				SGEA31FSZFR	/
				FS25T	LMC300MFS25T**				SGEA31FS300	**ANC03FS300**
				FS300	LMC300MFS300**				SGEA31FS300	**ANC03FS300**
				FS3M0	LMC300MFS3M0**				SGEA31FS300	**ANC03FS300**
				FS3T0	LMC300MFS3T0**				SGEA31FS300	**ANC03FS300**
				FS35M	LMC300MFS35M**				SGEA31FS350	**ANC03FS350**
				FS350	LMC300MFS350**				SGEA31FS350	**ANC03FS300**
160	11 15	15 20	42x110	FSZGR	LMC351MFSZGR4S	**179**	SGEA51M07109	EGE 5	SGEA51FSZGR	/
				FS200	LMC351MFS2004S				SGEA51FS200	/
				FSZFR	LMC351MFSZFR4S				SGEA51FSZFR	/
				FS25T	LMC351MFS25T**				SGEA51FS300	**ANC04FS300**
				FS300	LMC351MFS300**				SGEA51FS300	**ANC04FS300**
				FS3M0	LMC351MFS3M0**				SGEA51FS300	**ANC04FS300**
				FS3T0	LMC351MFS3T0**				SGEA51FS300	**ANC04FS300**
				FS35M	LMC351MFS35M**				SGEA51FS350	**ANC04FS350**
				FS350	LMC351MFS350**				SGEA51FS350	**ANC04FS350**
180	18.5 22	25 30	48x110	FSZGR	LMC351MFSZGR4S	**179**	SGEA51M08109	EGE 5	SGEA51FSZGR	/
				FS200	LMC351MFS2004S				SGEA51FS200	/
				FSZFR	LMC351MFSZFR4S				SGEA51FSZFR	/
				FS25T	LMC351MFS25T**				SGEA51FS300	**ANC04FS300**
				FS300	LMC351MFS300**				SGEA51FS300	**ANC04FS300**
				FS3M0	LMC351MFS3M0**				SGEA51FS300	**ANC04FS300**
				FS3T0	LMC351MFS3T0**				SGEA51FS300	**ANC04FS300**
				FS35M	LMC351MFS35M**				SGEA51FS350	**ANC04FS350**
				FS350	LMC351MFS350**				SGEA51FS350	**ANC04FS350**

For dimensions of motor half-coupling see page 22
For dimensions of spiders see page 56
For dimensions of pump half-coupling see page 22

N.B. The two final asterisks in the bell housing code indicate the version.
See “Order Designation” - pages 26 - 27

TABLE 15

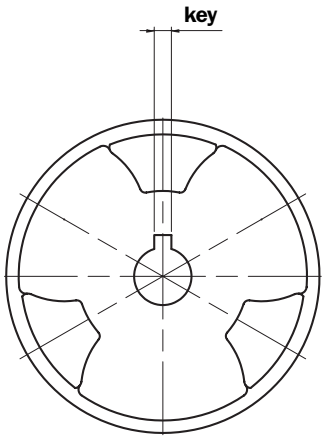
Electric motors with B14 flange gear pumps

Electric motor, 4-pole, 1500 rpm				Components of combination						
Motor size	kW	HP	Motor shaft	Pump code	Bell housing code	H1	Motor half-coupling code	Spider code	Pump half-coupling code	Centre ring code
63	0.12 0.18	0.16 0.25	11x23	FS05M	LMC090MFS05M4E	60	SGEA01M01021	EGE 0	SGEA00FS05M	**ANCA001**
				FS05C	LMC090MFS05M4E				SGEA01FS05C	**ANCA001**
				FS100	LMC090MFS1004E				SGEA01FS100	**ANC01FS100**
				FS1C0	LMC090MFS1M04E				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC090MFS1M04E				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC090MFSZBR4E				SGEA01FSZBR	/
71	0.25 0.37	0.35 0.55	14x30	FS05M	LMC105MFS05M4E	67	SGEA01M02028	EGE 0	SGEA01FS05M	**ANCA001**
				FS05C	LMC105MFS05M4E				SGEA01FS05C	**ANCA001**
				FS100	LMC105MFS1004E				SGEA01FS100	**ANC01FS100**
				FS1C0	LMA105MFS1C04E				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC105MFS1M04E				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC105MFSZBR4E				SGEA01FSZBR	/
80	0.55 0.75	0.75 1	19x40	FS05M	LMC120MFS05M4E	87	SGEA01M03048	EGE 0	SGEA01FS05M	**ANCA001**
				FS05C	LMC120MFS05M4E				SGEA01FS05C	**ANCA001**
				FS100	LMC120MFS1004E				SGEA01FS100	**ANC01FS100**
				FS1C0	LMC120MFS1M04E				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC120MFS1M04E				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC120MFSZFR4S				SGEA01FSZBR	/
				FS200	LMC121MFS2004E	95	SGEA21M03048	EGE 2	SGEA21FS200	**ANC02FS200**
				FSZFR	LMC121MFSZFR4S				SGEA21FSZFR	/
90	1.1 1.5	1.5 2	24x50	FS05M	LMC141MFS05M4S	95	SGEA01M04048	EGE 0	SGEA01FS05M	**ANCA001**
				FS05C	LMC141MFS05M4S				SGEA01FS05C	**ANCA001**
				FS100	LMC141MFS100**				SGEA01FS100	**ANC01FS100**
				FS1C0	LMA141MFS1M0**				SGEA01FS1C0	**ANC01FS1M0**
				FS1M0	LMC141MFS1M0**				SGEA01FS1M0	**ANC01FS1M0**
				FSZBR	LMC141MFSZBR4S				SGEA01FSZBR	/
				FS200	LMC141MFS200**	95	SGEA21M04048	EGE 2	SGEA21FS200	**ANC02FS200**
				FSZFR	LMC141MFSZFR4S				SGEA21FSZFR	/
100 112	2.2 4	3 5.5	28x60	FS05M	LMC161MFS05M4S	105	SGEA21M05055	EGE 2	SGEA21FS05M	/
				FS05C	LMC161MFS05M4S				SGEA21FS05C	/
				FS100	LMC161MFS1004S				SGEA21FS100	/
				FS1C0	LMC161MFS1M04S				SGEA21FS1C0	/
				FS1M0	LMC161MFS1M04S				SGEA21FS1M0	/
				FSZBR	LMC161MFSZBR4S				SGEA21FSZBR	/
				FS200	LMC161MFS200**				SGEA21FS200	**ANC02FS200**
				FSZFR	LMC161MFSZFR4S				SGEA21FSZFR	/

For dimensions of motor half-coupling see page 22
For dimensions of spiders see page 56
For dimensions of pump half-coupling see page 22

N.B. The two final asterisks in the bell housing code indicate the version.
See “Order Designation” - pages 26 - 27

Dimensions of SGEA series motor half-coupling aluminium



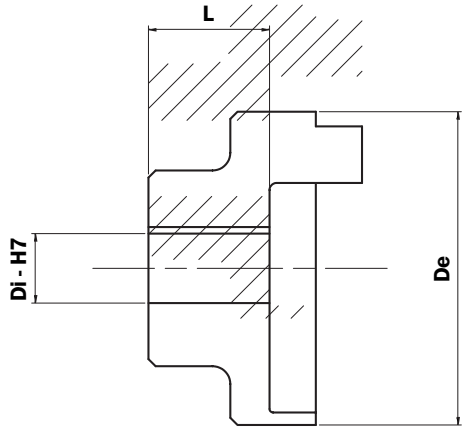
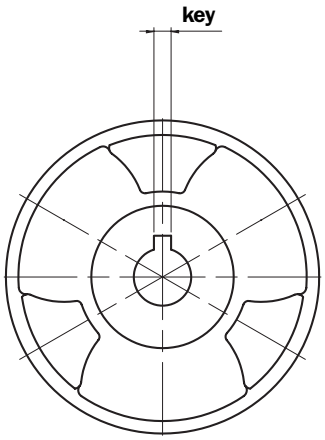


TABLE 16

Half-coupling code	De	L	Di	key
SGEA01M01021	44	21	11	4
SGEA01M02028	44	28	14	5
SGEA01M03048	44	48	19	6
SGEA01M04048	44	48	24	8

Half-coupling code	De	L	Di	key
SGEA21M05055	65	55	28	8
SGEA31M06077	85	77	32	10
SGEA51M07109	105	109	42	12
SGEA51M08109	105	109	48	14

Dimensions of SGEA series pump half-coupling aluminium



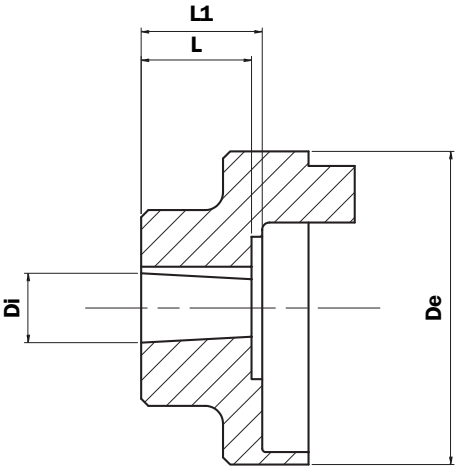


TABLE 17

Half-coupling code	De	L	L1	Di	key
SGEA01FS05M	44	10	16	06	2
SGEA01FS05C	44	10	16	07	2
SGEA01FS100	44	14,5	16	9,7	2.4
SGEA01FS1M0	44	16	16	13,9	3
SGEA01FS1C0	44	16	16	12	3
SGEA01FSZBR	44	16	16	9,8	2
SGEA21FS100	65	14,5	21,5	9,7	2,4
SGEA21FS1C0	65	16	21,5	12	3
SGEA21FS1M0	65	16	21,5	13,9	3
SGEA21FS200	65	21,5	21,5	17,2	3,2-4
SGEA21FSZFR	65	20	21,5	16,9	3
SGEA21FS300	65	27	41	22,2	4

Half-coupling code	De	L	L1	Di	key
SGEA31FS100	85	14,5	37	9,7	2
SGEA31FS1C0	85	16	37	12	2
SGEA31FS1M0	85	16	37	13,9	2.4
SGEA31FS200	85	23	37	17,2	3.2-4
SGEA31FS300	85	27	37	22,2	4
SGEA31FS350	85	35	37	25,6	4.76-5
SGEA31FSZFR	85	20	37	16,9	3
SGEA31FSZGR	85	27	34	25,2	5
SGEA51FS200	105	21,5	32	17,2	3.2-4
SGEA51FS300	105	27	32	22,2	4
SGEA51FS350	105	35	32	25,6	5
SGEA51FSZFR	105	20	32	16,9	3
SGEA51FSZGR	105	27	32	25,2	5

Comparative table

MP Filtri		OMT
New code	Old code	Code
SGEA01FS05M	**SGEA00B01018**	ND48P05M
SGEA01FS05C	**SGEA00B02018**	ND48P05GT
SGEA01FS100	**SGEA00B07018**	ND48PU1P
SGEA01FS1C0	**SGEA00B03014**	ND48P1C
SGEA01FS1M0	**SGEA00B06016**	ND48PIM
SGEA01FSZBR	**SGEA00B08014**	ND48PZB
SGEA21FS100	**SGEA20B07018**	ND65PU1P
SGEA21FS1C0	**SGEA20B03024**	ND65P1C
SGEA21FS1M0	**SGEA20B06024**	ND65P1M
SGEA21FSZBR	**SGEA20B08024**	ND65PZB
SGEA21FS200	**SGEA20B100242A**	ND65P2
SGEA21FSZFR	**SGEA20B13024**	ND65PZF
SGEA21FS25T	**SGEA20B16041**	ND65Q3U
SGEA31FS100	**SGEA30B07022**	ND86PU1P
SGEA31FS1C0	/	ND86P1C
SGEA31FS1M0	**SGEA30B06021**	ND86P1M
SGEA31FSZBR	/	/
SGEA31FS200	**SGEA30B100222A**	ND86P2
SGEA31FSZFR	**SGEA30B13020**	ND86PZF
SGEA31FS300	**SGEA30B16038**	ND86P3U
SGEA31FS350	**SGEA30B180382B**	/
SGEA51FSZGR	**SGEA50B17034**	/
SGEA51FS200	/	/
SGEA51FSZFR	**SGEA50B13032**	ND108PZF
SGEA51FS300	**SGEA50B16032**	ND108P3U
SGEA51FS350	**SGEA50B180342B**	ND108Q35
SGEA51FS400	**SGEA50B210462C**	/

N.B. The above table is guideline only.
Not all half-couplings are fully interchangeable.
For further information, contact the MP Filtri Technical and Sales Department.

Seals

Seals made of special paper provide the sealing action between the lid of the oil tank and the bell housing (motor interface) and between the bell housing and the pump flange.

They are available for motors from size 63 rated **0.12 kW,** up to **size 180 rated 22 kW**, and for all gear pumps listed in this catalogue.

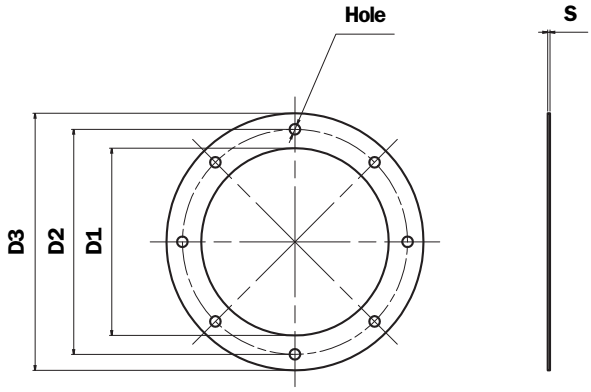


TABLE 18

Bell housing code	Seals code	D1	D2	D3	S	Hole
LMC 120	**GUM P 120**	84	100	120	1	7
LMC 140	**GUM P 140**	96	115	140		9
LMC 160	**GUM P 160**	110	130	160		9
LMC 200	**GUM P 200**	145	165	200		11
LMC 250	**GUM P 250**	190	215	250		14
LMC 300	**GUM P 300**	234	265	300		14
LMC 350	**GUM P 350**	260	300	350		18

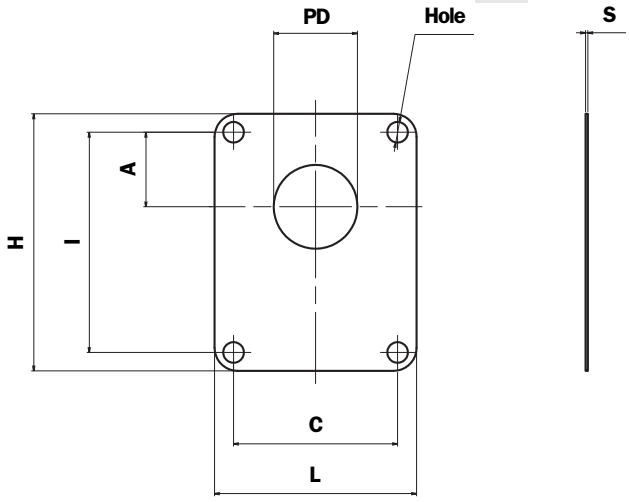


TABLE 19

Pump code	Seals code	PD	A	B	C	H	L	S	Hole
FS05M	**GUP P001**	22	25.6	66	-	80	48	1	6.5
FS100	**GUP P002**	25.4	26.6	72	52.4	87	67		6.5
FS1M0	**GUP P003**	30	24.5	73	56	85	68		6.5
FS200	**GUP P004**	36.5	32.5	96	71.5	112	88		8.5
FS300	**GUP P005**	50.8	43	128	98.5	148	118		10.5
FSZBR	**GUP P013**	32	10.35	40	40	75	62		8.5
FSZFR	**GUP P014**	80	34.5	100	72	118	90		9

N.B. Motor seals and pump seals must be ordered separately,

For seals with dimensions different to those indicated in tables 18 and 19, contact the MP Filtri Technical and Sales Department.

Comparative table

MP Filtri		OMT	Hydrapp	Raja	KTR
New code	Old code	Code	Code	Code	Code
LMC140MFS05M**	LMB140A060A001	LS140	/	/	/
LMC140MFS05C**	LMB140A060A001	LS140	/	/	/
LMC140MFS100**	LMB140A060A002	LS141	/	L45	/
LMC140MFS1C0**	LMB140A060A003	LS142	/	/	/
LMC140MFS1M0**	LMB140A060A003	LS142	/	B45	/
LMC140MFSZBR**	LMB140A060S013	LBS18	/	Bo45	/
LMC160MFS05M**	LMB160A067A001	LS160	HL1	H9	PL160/1/...
LMC160MFS05C**	LMB160A067A001	LS160	HL2	H9	PL160/1/...
LMC160MFS100**	LMB160A067A002	LS161	HL2	L9	PL160/1/...
LMC160MFS1C0**	LMB160A067A003*	LS162	HL3	L9	PL160/1/...
LMC160MFS1M0**	LMB160A067A003	LS162	HL4	B9	PL160/1/...
LMC160MFSZBR**	LMB160A067S013	LBS19	HLB1	Bo9	PL160/1/...
LMC200MFS05M**	LMB200A087A001	LS210	HL4L	H2	PL200/1/...
LMC200MFS05C**	LMB200A087A001*	LS210	HL4L	H2	PL200/1/...
LMC200MFS100**	LMB200A087A002	LS211	HL5L	L2	PL200/1/...
LMC200MFS1C0**	LMB200A087A003	LS212	HL6L	B2	PL200/1/...
LMC200MFS1M0**	LMB200A087A003	LS212	HL6L	B2	PL200/1/...
LMC200MFSZBR**	LMB200A087S013	LBS28	HLB3L	Bo2	PL200/1/...
LMC201MFS200**	LMB200A095C004	LS203	HL7SL	L7/4	PL200/2/...
LMC201MFSZBR**	LMB200A098S014	LS203	HLB12SL	Bo7	PL200/2/...
LMC250MFS100**	LMB250A109C002	LS250	HL8/1L	L6/3	PL250/1/...
LMC250MFS1C0**	LMB250A109C003	LS251	HL8L	B5	PL250/1/...
LMC250MFS1M0**	LMB250A109C003	LS251	HL8L	B5	PL250/1/...
LMC250MFSZBR**	LMB250A109S013	LBS22	HLB13L	Bo5	PL250/1/...
LMC250MFS200**	LMB250A109C004	LS252	HL9L	L6/3	PL250/1/...
LMC250MFSZFR**	LMB250A109S014	LBS23	HLB17L	Bo6	PL250/1/...
LMC250MFS25T**	LMB250A126D005	LS254	HL11	L4/3	PL250/7/...
LMC250MFS300**	LMB250A126D006	LBS25	HL11	L4/3	PL250/7/...
LMC250MFS3M0**	LMB250A126D007	LS256	HL11	L4/3	PL250/7/...
LMC250MFS3T0**	LMB250A126D006	LS257	HL11T	L34	PL250/7/...
LMC300MFS100**	/	LS210	/	/	PL300/2/...
LMC300MFS1C0**	/	LS211	/	/	PL300/2/...
LMC300MFS1M0**	/	LS311	/	/	PL300/2/...
LMC300MFSZBR**	/	/	/	/	PL300/2/...
LMC300MFS200**	LMB300A130D004	LS300	HL12	L13	PL300/2/...
LMC300MFFSZR**	LMB300A130S014	LBS26	HLB22	Bo13	PL300/2/...
LMC300MFS25T**	LMB300A147D005	LS301	HL13	L12	PL300/2/...
LMC300MFS300**	LMB300A147D005	LS302	HL13	L12	PL300/2/...
LMC300MFS3M0**	LMB300A147D005	LS303	HL13	L12	PL300/2/...
LMC300MFS3T0**	LMB300A147D006	LS304	HL13T	L14	PL300/2/...
LMC300MFS35M**	/	LS305	/	L16	PL300/2/...
LMC300MFS350**	/	LS306	HLB28	L15	PL300/2/...
LMC351MFSZGR**	/	LBS27	HL15	Bo14	PL350/2/...
LMC351MFS200**	LMB350A160D004	LS350	HLB27	L17	PL350/2/...
LMC351MFFSZR**	LMB350A160S014	LBS31	/	Bo18	PL350/2/...
LMC351MFS25T**	LMB350A179F005	LS351	/	L18	PL350/2/...
LMC351MFS300**	LMB350A179F005	LS352	/	L18	PL350/2/...
LMC351MFS3M0**	LMB350A179F005	LS353	/	L18	PL350/2/...
LMC351MFS3T0**	LMB350A179F006	LS354	/	L19	PL350/2/...
LMC351MFS35M**	/	LSE355	/	L21	PL350/2/...
LMC351MFS350**	/	LSE356	/	L20	PL350/2/...
LMC351MFSZGR**	/	LBS32	/	Bo19	PL350/2/...
LMC351MFS200**	LMB350A160D004	LS350	HL15	L17	PL350/2/...
LMC351MFFSZR**	LMB350A160S014	LBS31	HLB27	Bo18	PL350/2/...
LMC351MFS25T**	LMB350A179F005	LS351	/	L18	PL350/2/...
LMC351MFS300**	LMB350A179F005	LS352	/	L18	PL350/2/...
LMC351MFS3M0**	LMB350A179F005	LS353	/	L18	PL350/2/...
LMC351MFS3T0**	LMB350A179F006	LS354	/	L19	PL350/2/...
LMC351MFS35M**	/	LSE355	/	L21	PL350/2/...

N.B. The above table is guideline only.

All bell housings of the MP Filtri range can be considered equivalent to the counterpart brands listed.

For further information, contact the MP Filtri Technical and Sales Department.

LMC ordering information

Monobloc bell housing

LMC

	1	2	3	4	5
Example: LMC	**140**	**M**	**FS200**	**4E**	**FI**

1 - Sizes

- **140**
- **141**
- **160**
- **161**
- **200**
- **201**
- **250**
- **300**
- **351**

2 - Product revision code

- **M**

3 - Pump flange identification code

- **FS200** See table 12 page 18

4 - Option

- **4S** 4 through holes + 4 threaded holes, motor interface without coupling removal ring
- **4E** 4 through holes + 4 threaded holes, motor interface with coupling removal ring
- **8S** 8 through holes, motor interface without coupling removal ring
- **8E** 8 through holes, motor interface with coupling removal ring

5 - Option

- **FI** Inspection hole
- **DI** Drain hole + inspection hole
- **AN** Black anodized finish
- **SA** Motor interface with clearance holes
- **Pxx** Customer specification

N.B. Bell housings with FI/DI options are supplied complete with threaded closure plug

Foot bracket

PDM

	1	2
Example: PDM	**A**	**200**

1 - Product revision code

- **A**

2 - Sizes

- **160**
- **200**
- **250**
- **300**
- **350**

Damping ring

ANM

	1	2
Example: ANM	**A**	**200**

1 - Product revision code

- **A**

2 - Sizes

- **200**
- **250**
- **300**
- **350**

N.B. For customization features other than those indicated on this page, contact the Technical and Sales Department