

Bell Housings & Coupling Sets

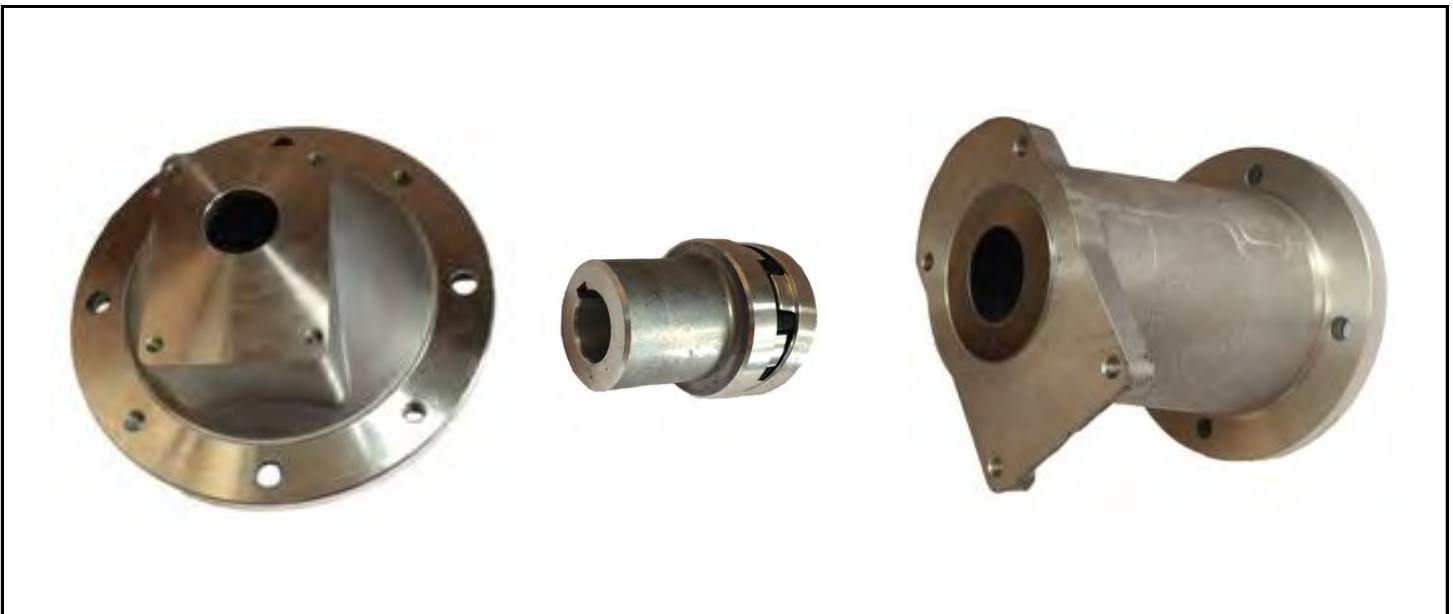
New Product!

Electric Motor Sets

| <i>Part Number</i> | <i>Motor Frame</i> | <i>Motor Shaft Size</i> | <i>Pump Size</i> | <i>Pump Shaft</i> |
|--------------------|--------------------|-------------------------|------------------|-------------------|
| BHCS71-1D | D71 | 14mm | Din Group 1 | 1:8 Taper |
| BHCS80-1D | D80 | 19mm | | |
| BHCS90-1D | D90 | 24mm | | |
| BHCS90-2D | | | SAE A | 5/8 Keyed |
| BHCS90-2S | D100/112 | 28mm | Din Group 1 | 1:8 Taper |
| BHCS100-1D | | | Din Group 2 | |
| BHCS100-2D | | | SAE A | 5/8 Keyed |
| BHCS100-2S | D132 | 38mm | Din Group 2 | 1:8 Taper |
| BHCS132-2D | | | SAE A | 5/8 Keyed |
| BHCS132-2S | | | Din Group 3 | 1:8 Taper |
| BHCS132-3D | | | SAE B | 7/8 Keyed |
| BHCS132-3S | D160 | 42mm | Din Group 3 | 1:8 Taper |
| BHCS160-3D | | | SAE B | 7/8 Keyed |
| BHCS160-3S | | | | |

Petrol/Diesel Engine Sets

| <i>Part Number</i> | <i>Spigot Size</i> | <i>Motor Shaft Size</i> | <i>Pump Size</i> | <i>Pump Shaft</i> |
|--------------------|--------------------|-------------------------|------------------|-------------------|
| BHCSE34-1D | 41.3mm | 3/4 Keyed | Din Group 1 | 1:8 Taper |
| BHCSE1-1D | 110mm | 1" Keyed | | |
| BHCSE1-2D | | | | |



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 be 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).

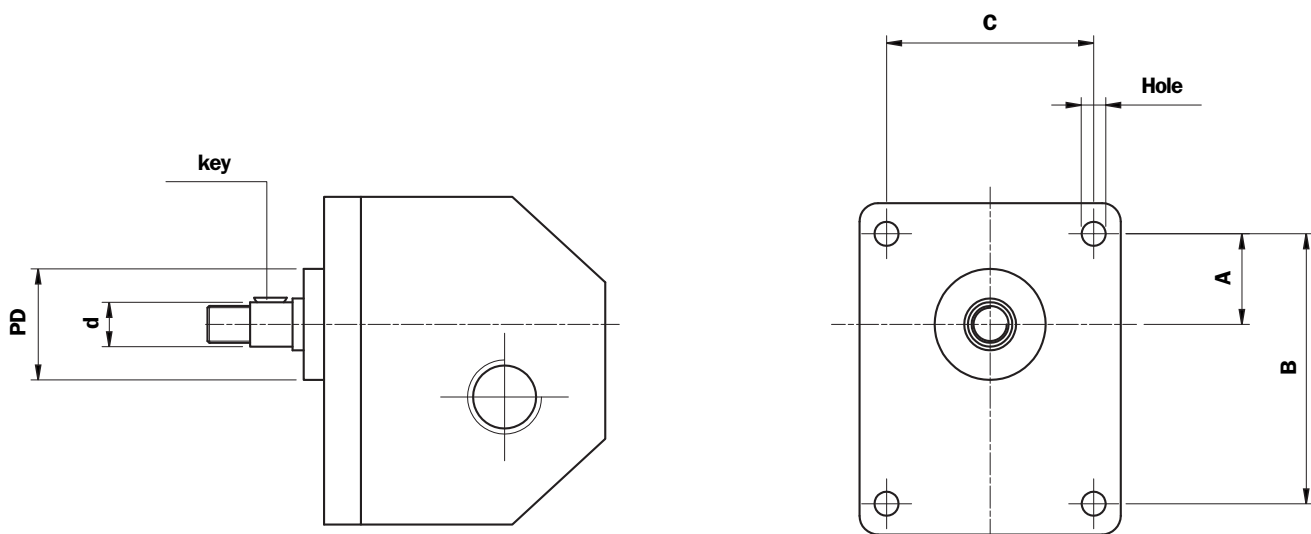
REQUIRED DATA

Power of electric motor

Model of hydraulic pump to be installed

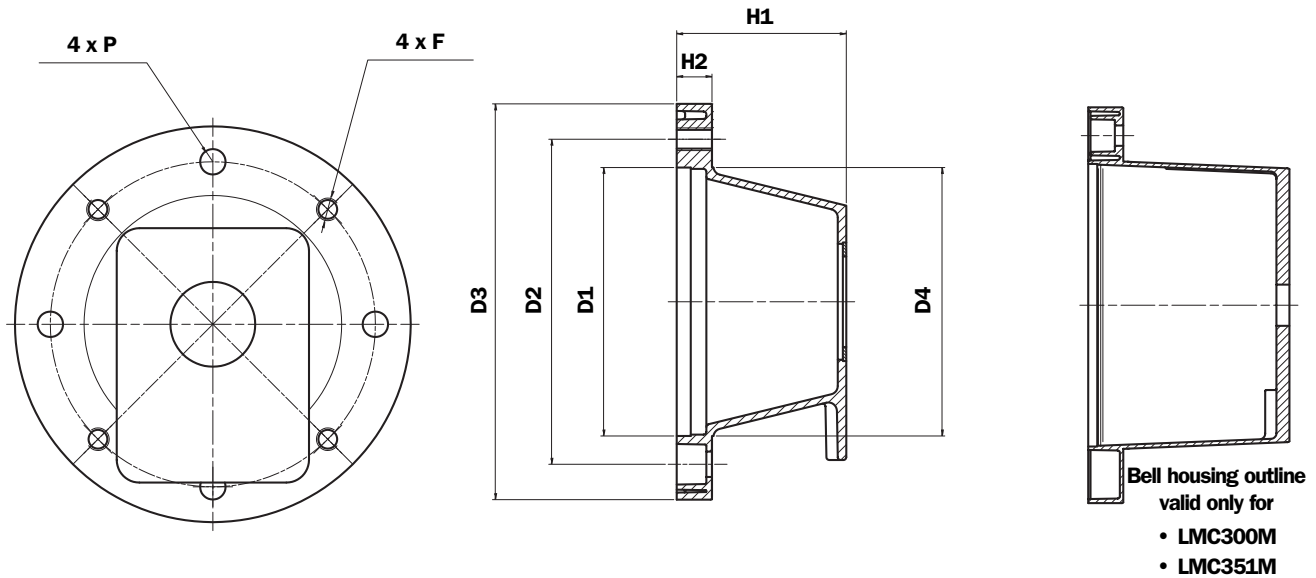
- Referring to the technical data sheet of the selected pump, check all dimensions relative to the mounting flange and all dimensions relative to the pump shaft (See illustration below).
- Identify the pump designation code (attributed by MP FILTRI).
- Referring to tables 13 -14 - 15 on pages 19 - 20 - 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 | | | | | | | | | | Weight (Kg) | |
|--|-----------|-----------|--------|---|-------------------|-------------------|-----|-----|-----|-----|----|----|-----|-------------|------|
| Frame size | kW | HP | Shaft | Bell housing code | Foot bracket code | Damping ring code | D1 | D2 | D3 | D4 | H1 | H2 | F | | P |
| 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 | | | | | | | | | | Weight (Kg) | |
|--|-----------|-----------|-------|---|-------------------|-------------------|-----|-----|-----|-----|----|----|----|-------------|------|
| Frame size | kW | HP | Shaft | Bell housing code | Foot bracket code | Damping ring code | D1 | D2 | D3 | D4 | H1 | H2 | F | | P |
| 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

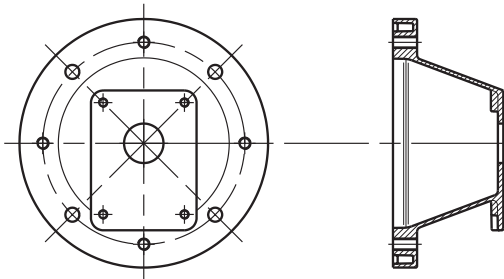
To determine dimension H1 of the bell housing
 For dimensions of the foot bracket
 For dimensions of the damping ring
 For all other dimensions

see pages 19-20-21
 see page 63
 see page 64
 see pump manufacturer's technical literature

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

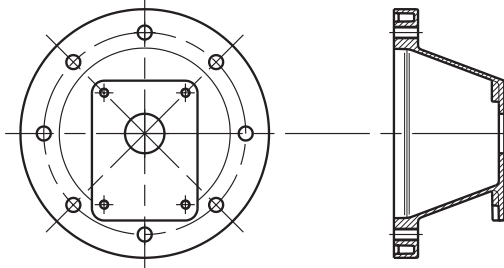
In order to ensure greater adaptability across a wide range of applications, **LMC** monobloc bell housings for gear pumps can be supplied in 4 different versions:

LMC *** 4S



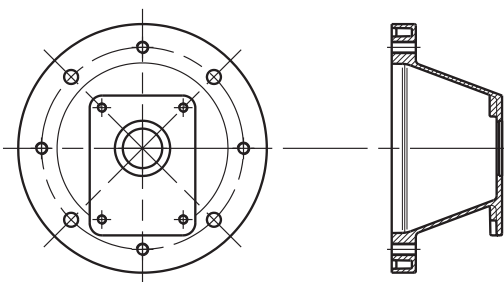
Without centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 4 clearance holes + 4 threaded holes. Used normally for vertically mounted motor and pump units with pump submerged in the oil tank.

LMC *** 8S



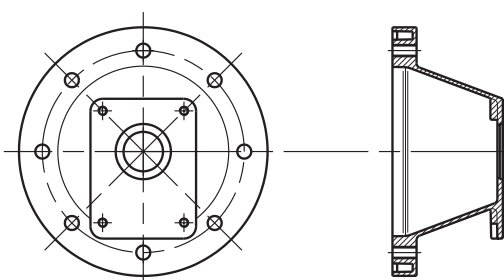
Without centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 8 clearance holes. Used normally for vertically mounted motor and pump units with pump submerged in the oil tank; allows greater flexibility for directional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

LMC *** 4E



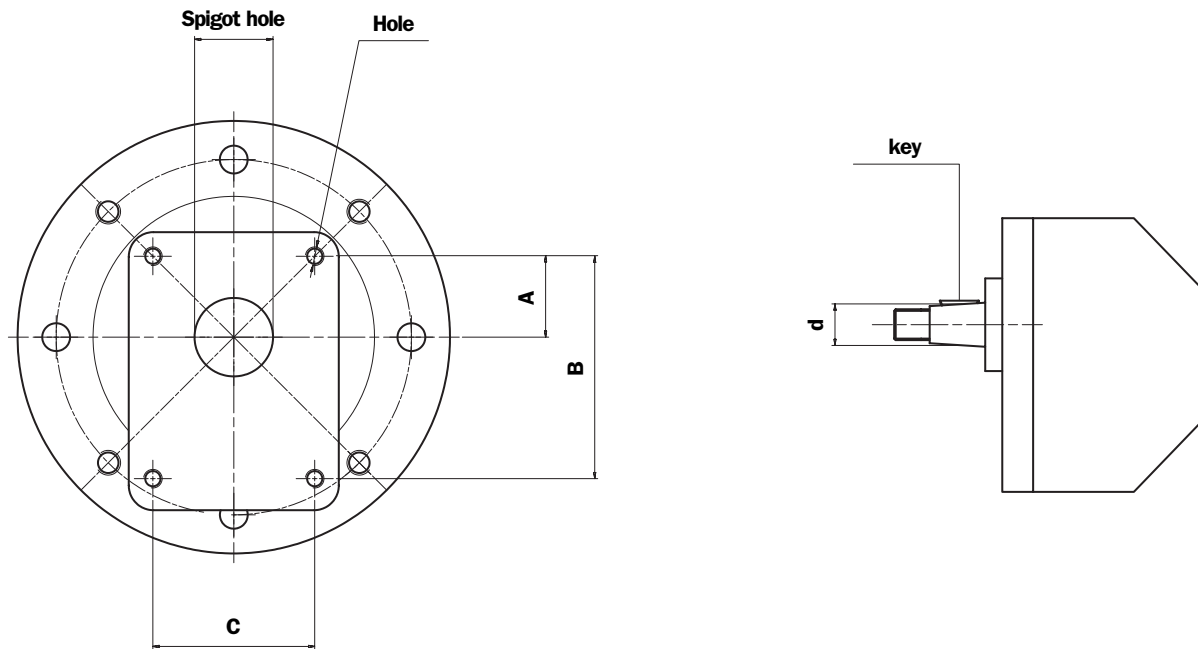
With centre ring allowing removal of half-coupling (which as a rule is keyed permanently to the pump shaft); motor mounting flange drilled with 4 clearance holes + 4 threaded holes. Normally used for motor and pump units mounted horizontally on the tank lid or on the machine, for maximum ease of maintenance. 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 of combinations

Electric motors with B3 - B5 flange gear pumps

TABLE 13

| 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 | SGEA21M05055 | EGE 2 | 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 of combinations

Electric motors with B14 flange gear pumps

TABLE 15

| 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 | ANCO1FS100 | |
| | | | | FS1C0 | LMC090MFS1M04E | | | | SGEA01FS1C0 | ANCO1FS1M0 | |
| | | | | FS1M0 | LMC090MFS1M04E | | | | SGEA01FS1M0 | ANCO1FS1M0 | |
| | | | | 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 | ANCO1FS100 | |
| | | | | FS1C0 | LMA105MFS1C04E | | | | SGEA01FS1C0 | ANCO1FS1M0 | |
| | | | | FS1M0 | LMC105MFS1M04E | | | | SGEA01FS1M0 | ANCO1FS1M0 | |
| | | | | 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 | ANCO1FS100 | |
| | | | | FS1C0 | LMC120MFS1M04E | | | | SGEA01FS1C0 | ANCO1FS1M0 | |
| | | | | FS1M0 | LMC120MFS1M04E | | | | SGEA01FS1M0 | ANCO1FS1M0 | |
| | | | | 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 | ANCO1FS100 | |
| | | | | FS1C0 | LMA141MFS1M0** | | | | SGEA01FS1C0 | ANCO1FS1M0 | |
| | | | | FS1M0 | LMC141MFS1M0** | | | | SGEA01FS1M0 | ANCO1FS1M0 | |
| | | | | 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

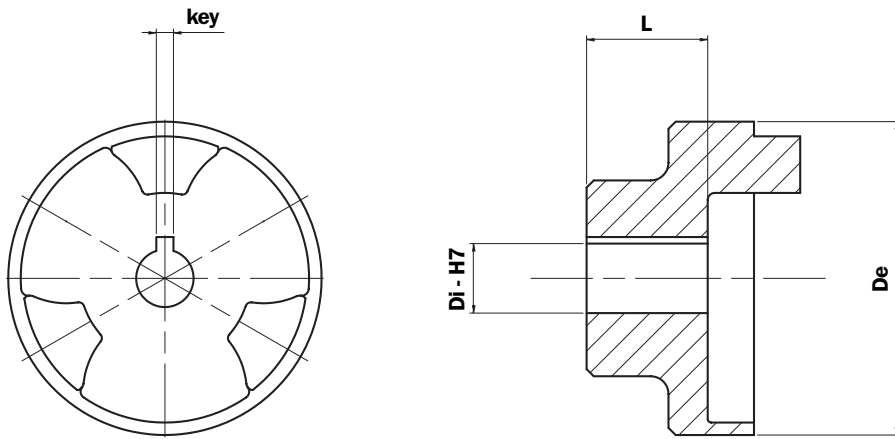


TABLE 16

| 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

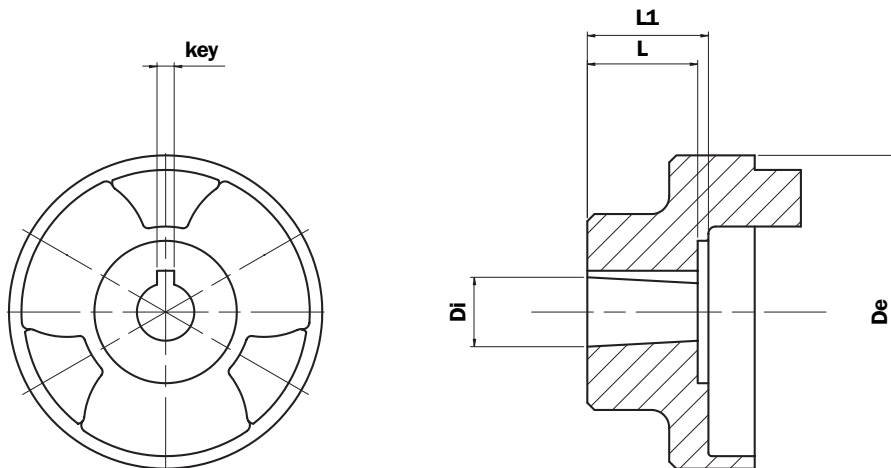


TABLE 17

| 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.

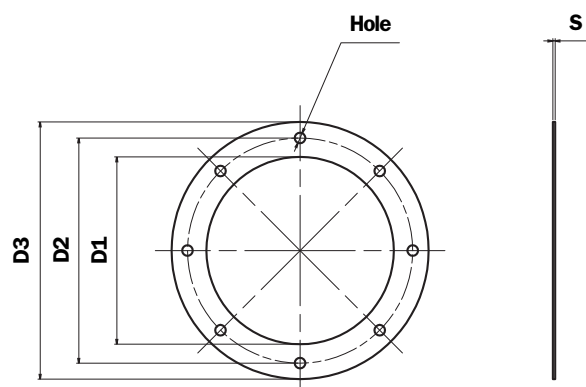


TABLE 18

| 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 |

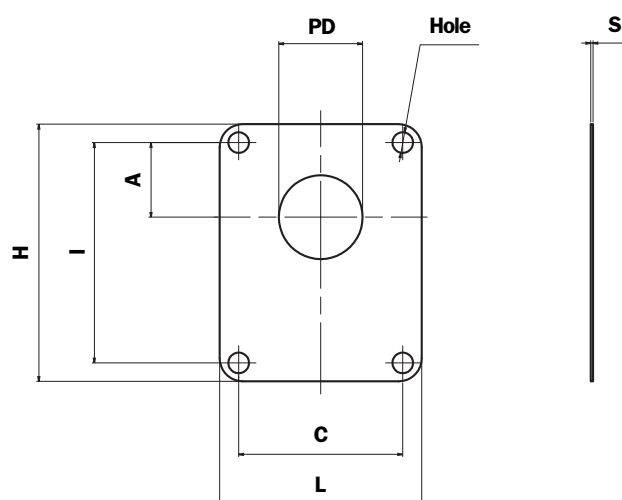


TABLE 19

| 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/... |
| LMC300MFSZBR** | 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/... |
| LMC351MFSZBR** | 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/... |
| LMC351MFSZBR** | 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.

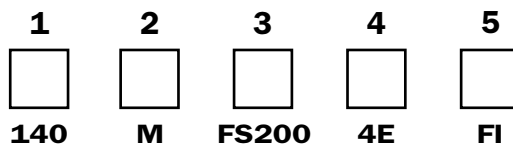
All bell housings of the MP Filtri range can be considered equivalent to the counterpart brands listed.

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

LMC ordering information

Monobloc bell housing LMC

Example: LMC



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

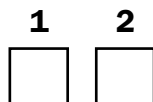
- FI Inspection hole
- DI Drain hole + inspection hole
- AN Black anodized finish
- SA Motor interface with clearance holes
- Pxx Customer specification

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

Foot bracket

PDM

Example: PDM A 200



1 - Product revision code

- A

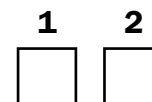
2 - Sizes

- 160
- 200
- 250
- 300
- 350

Damping ring

ANM

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