

# AKG series

IEC electric motor range from size 63 up to size 225





# Bell-Housings & Couplings sizing

|                  | p.        |
|------------------|-----------|
| <b>AUTOMATIC</b> | <b>11</b> |
| <b>MANUALLY</b>  | <b>12</b> |

## SOFTWARE FOR AUTOMATIC CALCULATION

The web-based software program will allow you to select the most suitable MP Filtri's Filters, in accordance with your process design requirements.

The program will automatically check your input design process prior to propose you the acceptable solutions and create an output in PDF report style format.

The MP Filtri Selection Tool software program is easy to use with a flexible fast design method and provides improved layout formats with full descriptions.

The web-based tool is available at MP Filtri website at following link:  
<https://www.mpfiltri.com/tools/>

The related, complete user guide is available as Manual and downloadable from the "Download" section of MP Filtri website, as well as scanning the following QR code



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**BELL-HOUSINGS  
& COUPLINGS**



# BELL-HOUSINGS & COUPLINGS SIZING

## A GUIDE TO SELECT THE CORRECT BELL-HOUSING AND DRIVE COUPLING MANUALLY

### DATA REQUIRED

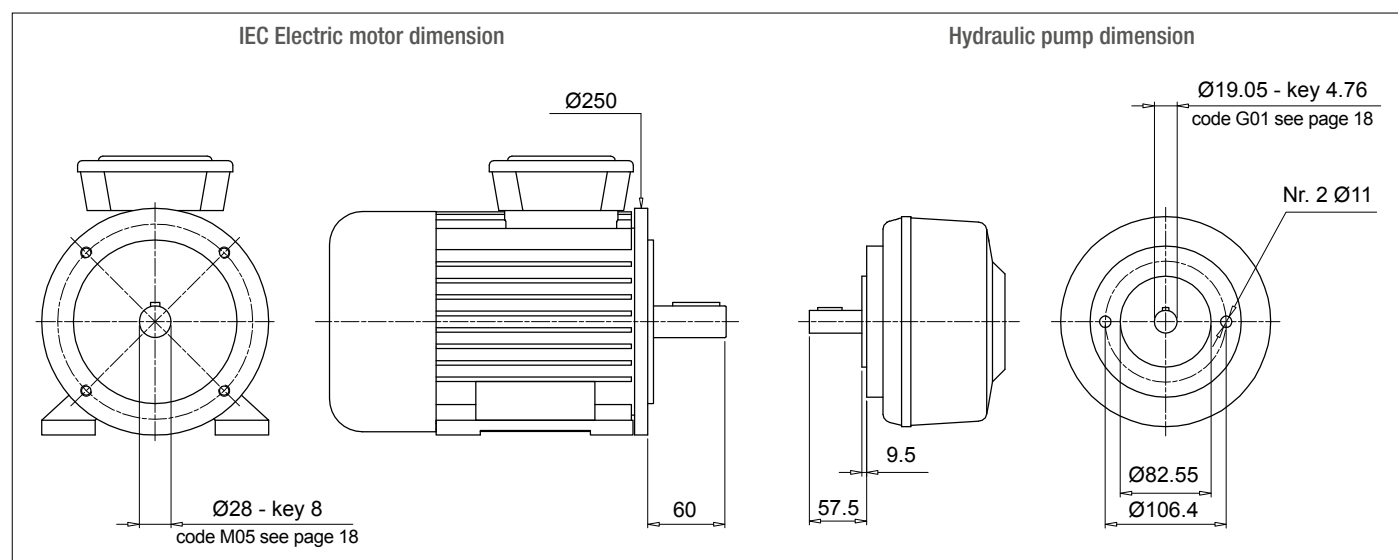
- Electric motor power/motor size
- Manufacturer and pump type

### TO VERIFY:

- 1 - Pump and motor shaft dimensions (see electric motor data sheet)
- 2 - Shaft and flange pump (see pump data sheet)

### Example:

- Electric motor 2.2 kW - size 100-112
- Atos pump code PFE31 - Shaft 1



### Bell-Housing's length calculation

- $H = 60 + 18 + 57.5 = 135.5 \text{ mm}$  (18 = Sp spider - see page 31)
- Choose type of bell-housing (LMC - LMS):
  - For monobloc bell-housing LMC/LDC series see pages 75 ÷ 81
  - For Low noise bell-housing LMS/LDS series see pages 81 ÷ 89
  - For Multi-components 2-3 bell housing series see pages 91 ÷ 111

#### Note:

The length of bell-housing must be  $\geq$  than the length calculated (135.5 mm)

### Case A

#### Solution with monobloc bell-housing series **LMC/LDC**

Pages 75 ÷ 81 for IEC Electric motor size 100-112 - LMC250

LMC 250 bell-housing with height  $\geq 135.5$  - LMC250AFSQ

The bell-housing code must be completed with pump drilling code (see pages 60-61).

For the specific case:

Spigot hole 82.55 - PCD 106.4 - Nr.2 holes M10 : Drilling code 060

Definitive bell-housing code **LMC250AFSQ060**

### Case B

#### Solution with low noise bell-housing series **LMS/LDS**

Pages 83 ÷ 89 for IEC Electric motor size 100-112 - LMS250

LMS 250 bell-housing with height  $\geq 135.5$  - LMS250AFSA

The bell-housing code must be completed with pump drilling code (see pages 60-61).

For the specific case:

Spigot hole 82.55 - PCD 106.4 - Nr.2 holes M10 : Drilling code 060

Definitive bell-housing code **LMS250AFSA060**

### Coupling selection

#### Motor half-coupling (see page 26)

For IEC Electric motor size 100/112, the half-coupling is **SGEA21M05060**

#### Spider (see page 31)

For SGEA21, EGE2 - EGE2RR

(choose spider material on the base of the application, oil, temperature and cycle machine, etc.)

#### Pump half-coupling

Choose the drilling code - see pages 18-19 for shaft 19.05 - key 4.76 - code: **G01**

Pump half-coupling length = BH length - THK Spider - THK Spigot

LMC = 138 mm - 60 - 18 - 9.5 = 50.5 mm

LMS = 148 mm - 60 - 18 - 9.5 = 60.5 mm

LMC - Choose the half-coupling's length at page 26  $\leq$  50.5 mm.

LMS - Choose the half-coupling's length at page 26  $\leq$  60.5 mm.

LMC - Available length for SGEA21 = 50 mm

LMS - Available length for SGEA21 = 60 mm

Half coupling for LMC: **SGEA21G01050**

Half coupling for LMS: **SGEA21G01050**

**Note:** for multi pumps we recommend to use a specific support on the base of the pump's dimensions and weight.

The half-couplings series SGE\*\*\* allow secure transmission between the electric motor and the driven side; they are able to absorb shocks and vibration, in addition to compensating radial misalignment, angular and axial.

The assembly of the couplings can be horizontal/vertical, withstanding vibration and load reversals.

The complete range of couplings are extrapolated from the on-line software, with a length equal than the shaft on which must be mounted and they are completed with grub screw for fixing located on the key.

Available for cylindrical shaft with metric and imperial dimensions as well for splined shafts as per specification DIN, ISO and SAE.

Admissible misalignment radial, angular and axial

Max admissible radial misalignment

| Half-coupling | R [mm] |
|---------------|--------|
| SGE * 01      | 0.5    |
| SGE * 21      | 1.0    |
| SGE * 31      | 1.0    |
| SGE * 40      | 1.0    |
| SGE * 51      | 1.5    |
| SGE * 60      | 1.5    |
| SGE * 80      | 2.0    |
| SGE * 90      | 2.0    |

Max admissible angular misalignment

| Half-coupling | β [°] |
|---------------|-------|
| SGE * 01      | 1.5°  |
| SGE * 21      |       |
| SGE * 31      |       |
| SGE * 40      |       |
| SGE * 51      |       |
| SGE * 60      |       |
| SGE * 80      |       |
| SGE * 90      |       |

Max admissible alignment

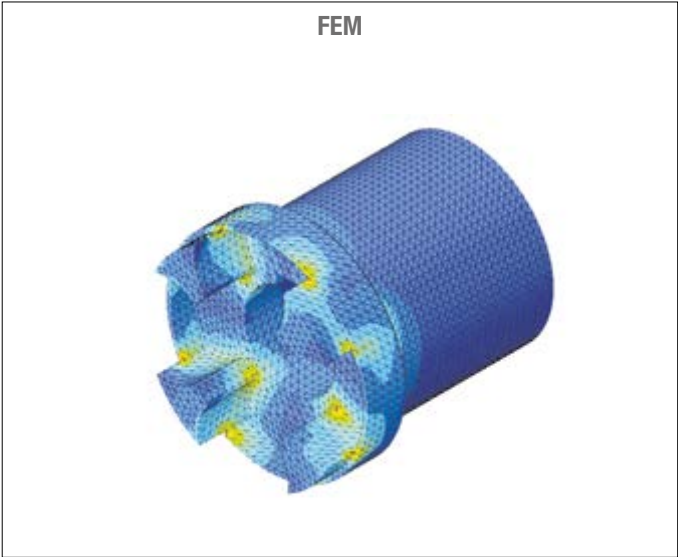
| Half-coupling | A [mm] |
|---------------|--------|
| SGE * 01      | 2.0    |
| SGE * 21      | 2.5    |
| SGE * 31      | 3.0    |
| SGE * 40      | 3.5    |
| SGE * 51      | 3.5    |
| SGE * 60      | 3.5    |
| SGE * 80      | 4.0    |
| SGE * 90      | 5.0    |

Standard ATEX Directive 2014/34/EU and UK Regulation S.I. 2016 No. 1107 (as amended)



Half-couplings are available to use in hazardous area.  
The couplings are certified according to Standard ATEX Directive 2014/34/EU and UK Regulation S.I. 2016 No. 1107 (as amended) - Category certified 2G - Area 1 and 2.  
Other information available on our web site “www.mpfiltri.com”.

MP Filtri couplings are developed with:



Drawings 3D available on website [www.mpfiltri.com](http://www.mpfiltri.com) at section TOOLS.

## Examples verification of the coupling

Torque transmitted by electric motor:

**Mt:**  $9560 \times \text{kW} / \text{rpm} = \text{Nm}$

**Me >**  $\text{Mt} \times \text{S} = \text{Nm}$

Where:

**Mt:** Torque transmitted by electric motor

**Me:** Torque transmitted by coupling

**kW:** Power of electric motor

**Rpm:** Revolutions per minute of electric motor

**S:** Service factor

Table 1

|                                                                                                                          |            |
|--------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Small pumps, uniform load, low operating pressures</b><br>e.g. rotary action machine tools - 5/8 work cycles per hour | <b>1.3</b> |
| <b>Small pumps, uniform load, high working pressures</b><br>e.g. lifting equipment - 120-150 work cycles per hour        | <b>1.5</b> |
| <b>Pumps, non-uniform load</b><br>e.g. lifting equipment - 280-300 work cycles per hour                                  | <b>1.7</b> |

**Example**

Electric motor, 4 pole - 4 kW  
hydraulic pump, uniform load, low operating pressure

**Mt:**  $9560 \times 4 / 1500 = 25.45 \text{ Nm}$

**Me >**  $25.49 \times 1.3 = 33 \text{ Nm}$

**Half-coupling SGEA21 meets the above requirement.**

Select the half-coupling of the calculated size from the motor half-couplings table.

**Note:** When selecting the coupling, remember that for pumps with splined shaft, only cast iron couplings of the SGEG series can be used.

Determine the size of the coupling according to the type of installation and application envisaged, on the basis of the formulas and the following tables:

Table 2

| Half-coupling type | External diameter [mm] | Nominal torque Me - Nm | Maximum transmissible torque Me - Nm |                  |
|--------------------|------------------------|------------------------|--------------------------------------|------------------|
| <b>ROTAFIT</b>     |                        |                        |                                      |                  |
| <b>SGEA01</b>      | <b>SGEK01</b>          | 44                     | 10                                   | 20               |
| <b>SGEA21</b>      | <b>SGEK21</b>          | 70                     | 95                                   | 190              |
| <b>SGEA31</b>      | <b>SGEK31</b>          | 85                     | 190                                  | 380              |
| <b>SGEA51</b>      | <b>SGEK51</b>          | 109.5                  | 310                                  | 620              |
|                    |                        |                        |                                      | <b>ALUMINIUM</b> |
| <b>SGEG01</b>      |                        | 40                     | 10                                   | 20               |
| <b>SGEG30</b>      |                        | 80                     | 190                                  | 380              |
| <b>SGEG40</b>      | <b>SGEK40</b>          | 95                     | 310                                  | 620              |
| <b>SGEG60</b>      | <b>SGEK60</b>          | 120                    | 430                                  | 860              |
| <b>SGEG80</b>      | <b>SGEK80</b>          | 160                    | 1250                                 | 2500             |
| <b>SGEG90</b>      |                        | 200                    | 5500                                 | 6100             |
|                    |                        |                        |                                      | <b>CAST IRON</b> |
| <b>SGES40</b>      |                        | 95                     | 310                                  | 620              |
| <b>SGES60</b>      |                        | 120                    | 430                                  | 860              |
| <b>SGES80</b>      |                        | 180                    | 1250                                 | 2500             |
|                    |                        |                        |                                      | <b>STEEL</b>     |

Nominal and maximum torque values are referred to couplings assembled with standard flexible spiders of the **EGE\*\*** series (see page 31).

Where higher torques are to be transmitted, use flexible spiders of the **EGE\*\*RR** series (see page 31).

Parallel shaft - Metric Dimensions

| Ø [mm] | key [mm] | Code       |
|--------|----------|------------|
| 12     | 4        | <b>C00</b> |
| 15     | 5        | <b>C01</b> |
| 16     | 4        | <b>C02</b> |
| 16     | 5        | <b>C03</b> |
| 17     | 5        | <b>C04</b> |
| 18     | 6        | <b>C05</b> |
| 20     | 5        | <b>C06</b> |
| 19     | 5        | <b>C07</b> |
| 30     | 10       | <b>C08</b> |
| 20     | 6        | <b>C09</b> |
| 16     | 5        | <b>C10</b> |
| 15     | 4        | <b>C11</b> |
| 22     | 6        | <b>D00</b> |
| 24     | 6        | <b>D01</b> |
| 25     | 8        | <b>D02</b> |
| 30     | 8        | <b>D03</b> |
| 32     | 10       | <b>D04</b> |
| 35     | 10       | <b>D05</b> |
| 40     | 12       | <b>D06</b> |
| 45     | 14       | <b>D07</b> |
| 50     | 14       | <b>D08</b> |
| 70     | 20       | <b>D09</b> |
| 22     | 8        | <b>D10</b> |
| 52     | 16       | <b>D20</b> |
| 8      | 3        | <b>E00</b> |
| 10     | 3        | <b>E01</b> |
| 22     | 5        | <b>E02</b> |
| 32     | 8        | <b>E03</b> |
| 35     | 8        | <b>E04</b> |
| 82     | 22       | <b>E05</b> |
| 25     | 7        | <b>E06</b> |
| 63     | 18       | <b>E07</b> |
| 9      | 3        | <b>M00</b> |
| 11     | 4        | <b>M01</b> |
| 14     | 5        | <b>M02</b> |
| 19     | 6        | <b>M03</b> |
| 24     | 8        | <b>M04</b> |
| 28     | 8        | <b>M05</b> |
| 38     | 10       | <b>M06</b> |
| 42     | 12       | <b>M07</b> |
| 48     | 14       | <b>M08</b> |
| 55     | 16       | <b>M09</b> |
| 60     | 18       | <b>M10</b> |
| 65     | 18       | <b>M11</b> |
| 75     | 20       | <b>M12</b> |
| 80     | 22       | <b>M13</b> |
| 90     | 25       | <b>M14</b> |
| 95     | 25       | <b>M15</b> |
| 100    | 28       | <b>M16</b> |
| 110    | 28       | <b>M17</b> |
| 85     | 22       | <b>M18</b> |

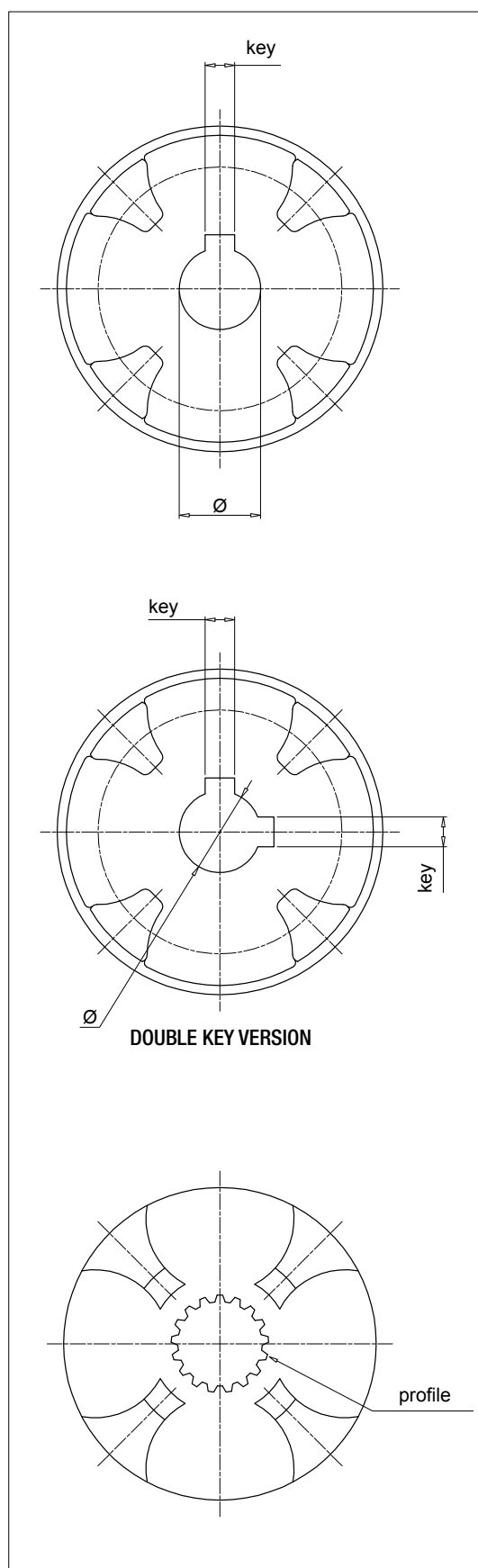
Parallel shaft - Imperial Dimensions

| Ø [inch] | Ø [mm] | key [inch] | key [mm] | Code       |
|----------|--------|------------|----------|------------|
| 7/16"    | 11.11  | 1/8"       | 3.18     | <b>G00</b> |
| 3/4"     | 19.05  | 3/16"      | 4.76     | <b>G01</b> |
| 7/8"     | 22.22  | 3/16"      | 4.76     | <b>G02</b> |
| 7/8"     | 22.22  | 1/4"       | 6.35     | <b>G03</b> |
| 1"       | 25.4   | 3/16"      | 4.76     | <b>G04</b> |
| 1"       | 25.40  | 1/4"       | 6.35     | <b>G05</b> |
| 1 1/4"   | 31.75  | 1/4"       | 6.35     | <b>G06</b> |
| 1 1/4"   | 31.75  | 5/16"      | 7.94     | <b>G07</b> |
| 1 3/8"   | 34.94  | 5/16"      | 7.94     | <b>G08</b> |
| 1 1/2"   | 38.1   | 3/8"       | 9.52     | <b>G09</b> |
| 1 5/8"   | 41.27  | 3/8"       | 9.52     | <b>H00</b> |
| 1 3/4"   | 44.45  | 7/16"      | 11.11    | <b>H01</b> |
| 2"       | 50.8   | 1/2"       | 12.7     | <b>H02</b> |
| 2 11/32" | 53.94  | 1/2"       | 12.7     | <b>H03</b> |
| 3/4"     | 19.02  | 1/8"       | 3.17     | <b>H04</b> |
| 1"       | 25.4   | 3/16"      | 4.76     | <b>H05</b> |
| 5/8"     | 15.87  | 3/16"      | 4.76     | <b>H06</b> |
| 17/32"   | 13.45  | 1/8"       | 3.18     | <b>H07</b> |
| 11/16"   | 17.46  | 3/16"      | 4.76     | <b>H08</b> |
| 1/2"     | 12.7   | 1/8"       | 3.18     | <b>H09</b> |
| 5/8"     | 15.87  | 5/32"      | 3.97     | <b>L00</b> |
| 7/8"     | 22.22  | 5/32"      | 4        | <b>L01</b> |
| 11/8"    | 28.58  | 1/4"       | 6.35     | <b>L02</b> |
| 3/4"     | 19.05  | 1/4"       | 6.35     | <b>L03</b> |
| 1 7/8"   | 47.63  | 1/2"       | 12.7     | <b>L04</b> |
| 3 3/8"   | 85.73  | 7/8"       | 22.23    | <b>L05</b> |
| 2 3/8"   | 60.33  | 5/8"       | 15.88    | <b>L06</b> |
| 2 3/8"   | 60.33  | 1/2"       | 12.7     | <b>L07</b> |
| 2 7/8"   | 73.03  | 3/4"       | 19.05    | <b>L08</b> |
| 3 5/8"   | 92.07  | 7/8"       | 22.22    | <b>L09</b> |
| 1 5/8"   | 41.6   | 15/32"     | 12       | <b>L10</b> |
| 1 1/8"   | 28.58  | 5/16"      | 7.94     | <b>L15</b> |

Parallel shaft - Double Key

| Ø [mm] | key [mm] | Code            |
|--------|----------|-----------------|
| 16.00  | 4.00     | <b>C02***2H</b> |
|        | 5.00     |                 |
| 20.00  | 5.00     | <b>C06***2M</b> |
|        | 6.00     |                 |
| 19.00  | 5.00     | <b>C07***2L</b> |
|        | 6.00     |                 |
| 24.00  | 6.00     | <b>D01***2N</b> |
|        | 8.00     |                 |
| 30.00  | 8.00     | <b>D03***2P</b> |
|        | 10.00    |                 |
| 22.22  | 4.76     | <b>G02***2E</b> |
|        | 6.35     |                 |
| 25.40  | 6.35     | <b>G04***2F</b> |
|        | 4.76     |                 |
| 31.75  | 6.35     | <b>G06***2G</b> |
|        | 7.94     |                 |

\*\*\* = coupling length



## SAE Bore - ANS.B.92.1-1970

| Profile     | Nr. of Th | Code        |
|-------------|-----------|-------------|
| 17 th 8/16  | 17        | <b>PD01</b> |
| 14 th 12/24 | 14        | <b>PD02</b> |
| 16 th 12/24 | 16        | <b>PD03</b> |
| 17 th 12/24 | 17        | <b>PD04</b> |
| 9 th 16/32  | 9         | <b>PD05</b> |
| 11 th 16/32 | 11        | <b>PD06</b> |
| 12 th 16/32 | 12        | <b>PD07</b> |
| 13 th 16/32 | 13        | <b>PD08</b> |
| 15 th 16/32 | 15        | <b>PD09</b> |
| 21 th 16/32 | 21        | <b>PD10</b> |
| 23 th 16/32 | 23        | <b>PD11</b> |
| 27 th 16/32 | 27        | <b>PD12</b> |
| 40 th 16/32 | 40        | <b>PD13</b> |
| 20 th 24/48 | 20        | <b>PD14</b> |
| 21 th 24/48 | 21        | <b>PD15</b> |
| 23 th 24/48 | 23        | <b>PD16</b> |
| 25 th 24/48 | 25        | <b>PD17</b> |
| 26 th 24/48 | 26        | <b>PD18</b> |
| 27 th 24/48 | 27        | <b>PD19</b> |
| 28 th 24/48 | 28        | <b>PD20</b> |
| 29 th 24/48 | 29        | <b>PD21</b> |
| 32 th 24/48 | 32        | <b>PD22</b> |
| 21 th 32/64 | 21        | <b>PD23</b> |
| 30 th 32/64 | 30        | <b>PD24</b> |
| 33 th 32/64 | 33        | <b>PD25</b> |
| 23 th 40/80 | 23        | <b>PD26</b> |
| 36 th 48/96 | 36        | <b>PD27</b> |
| 41 th 48/96 | 41        | <b>PD28</b> |
| 47 th 48/96 | 47        | <b>PD29</b> |
| 13 th 8/16  | 13        | <b>PD30</b> |
| 15 th 8/16  | 15        | <b>PD31</b> |
| 14 th 16/32 | 14        | <b>PD32</b> |
| 40 th 16/32 | 40        | <b>PD33</b> |
| 33 th 16/32 | 33        | <b>PD34</b> |
| 9 th 20/40  | 9         | <b>PD35</b> |
| 10 th 16/32 | 10        | <b>PD36</b> |
| 25 th 20/40 | 25        | <b>PD37</b> |

## Splined bore as per standard DIN5480

| Profile         | Nr. of Th | Code        |
|-----------------|-----------|-------------|
| W18 x 1.25 x 13 | 13        | <b>PA01</b> |
| W20 x 1.25 x 14 | 14        | <b>PA02</b> |
| W25 x 1.25 x 18 | 18        | <b>PA03</b> |
| W28 x 1.25 x 21 | 21        | <b>PA04</b> |
| W32 x 1.25 x 24 | 24        | <b>PA05</b> |
| W38 x 1.25 x 29 | 29        | <b>PA06</b> |
| W30 x 2 x 14    | 14        | <b>PA07</b> |
| W32 x 2 x 14    | 14        | <b>PA08</b> |
| W35 x 2 x 16    | 16        | <b>PA09</b> |
| W37 x 2 x 17    | 17        | <b>PA10</b> |
| W38 x 2 x 18    | 18        | <b>PA11</b> |
| W40 x 2 x 18    | 18        | <b>PA12</b> |
| W42 x 2 x 20    | 20        | <b>PA13</b> |
| W45 x 2 x 21    | 21        | <b>PA14</b> |
| W50 x 2 x 24    | 24        | <b>PA15</b> |
| W55 x 2 x 26    | 26        | <b>PA16</b> |
| W60 x 2 x 28    | 28        | <b>PA17</b> |
| W70 x 2 x 34    | 34        | <b>PA18</b> |
| W80 x 2 x 38    | 38        | <b>PA19</b> |
| W60 x 3 x 18    | 18        | <b>PA20</b> |
| W70 x 3 x 22    | 22        | <b>PA21</b> |
| W75 x 3 x 24    | 24        | <b>PA22</b> |
| W90 x 3 x 28    | 28        | <b>PA23</b> |
| W105 x 3 x 34   | 34        | <b>PA24</b> |
| W80 x 3 x 25    | 25        | <b>PA25</b> |
| W50 x 1.25 x 38 | 38        | <b>PA26</b> |
| W62 x 1.25 x 48 | 48        | <b>PA27</b> |
| W40 x 1.5 x 25  | 25        | <b>PA28</b> |
| W32 x 1.5 x 20  | 20        | <b>PA29</b> |
| W40 x 1.25 x 30 | 30        | <b>PA30</b> |

## Splined bore as per standard DIN5481

| Profile | Nr. of Th | Code        |
|---------|-----------|-------------|
| 8 x 10  | 28        | <b>PC01</b> |
| 10 x 12 | 30        | <b>PC02</b> |
| 12 x 14 | 31        | <b>PC03</b> |
| 15 x 17 | 32        | <b>PC04</b> |
| 17 x 20 | 33        | <b>PC05</b> |
| 21 x 24 | 34        | <b>PC06</b> |
| 26 x 30 | 35        | <b>PC07</b> |
| 30 x 34 | 36        | <b>PC08</b> |
| 60 x 65 | 41        | <b>PC09</b> |

## Splined bore as per standard DIN5482

| Profile   | Nr. of Th | Code        |
|-----------|-----------|-------------|
| A15 x 12  | 8         | <b>PB01</b> |
| A17 x 14  | 9         | <b>PB02</b> |
| A18 x 15  | 10        | <b>PB03</b> |
| A20 x 17  | 12        | <b>PB04</b> |
| A22 x 19  | 13        | <b>PB05</b> |
| A25 x 22  | 14        | <b>PB06</b> |
| A28 x 25  | 15        | <b>PB07</b> |
| A30 x 27  | 16        | <b>PB08</b> |
| A32 x 28  | 17        | <b>PB09</b> |
| A35 x 31  | 18        | <b>PB10</b> |
| A38 x 34  | 19        | <b>PB11</b> |
| A40 x 36  | 20        | <b>PB12</b> |
| A42 x 38  | 21        | <b>PB13</b> |
| A45 x 41  | 22        | <b>PB14</b> |
| A48 x 44  | 23        | <b>PB15</b> |
| A50 x 45  | 24        | <b>PB16</b> |
| A52 x 47  | 25        | <b>PB17</b> |
| A55 x 50  | 26        | <b>PB18</b> |
| A58 x 53  | 27        | <b>PB19</b> |
| A60 x 55  | 28        | <b>PB20</b> |
| A62 x 57  | 29        | <b>PB21</b> |
| A65 x 60  | 30        | <b>PB22</b> |
| A68 x 62  | 31        | <b>PB23</b> |
| A70 x 64  | 32        | <b>PB24</b> |
| A72 x 66  | 33        | <b>PB25</b> |
| A75 x 69  | 34        | <b>PB26</b> |
| A78 x 72  | 35        | <b>PB27</b> |
| A80 x 74  | 36        | <b>PB28</b> |
| A82 x 76  | 37        | <b>PB29</b> |
| A85 x 79  | 38        | <b>PB30</b> |
| A88 x 82  | 39        | <b>PB31</b> |
| A90 x 84  | 40        | <b>PB32</b> |
| A92 x 86  | 41        | <b>PB33</b> |
| A95 x 89  | 42        | <b>PB34</b> |
| A98 x 92  | 43        | <b>PB35</b> |
| A100 x 94 | 44        | <b>PB36</b> |

## Technical data

## Couplings - IEC electric motor range from size 63 up to size 225

**Materials**

- Hubs: Aluminium, cast iron, steel
- Spider materials: NBR rubber 87 Sh A  
Polyurethane 95 Sh A

**Compatibility with fluids**

Modular bell-housing components compatible for use with:

- Mineral oils types HH-HL-HM-HR-HV, 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 MP Filtri Technical and Sales Department

**Temperature**

From -30 °C to +80 °C

**Note**

For temperatures outside this range, contact MP Filtri Technical and Sales Department



Standard ATEX Directive 2014/34/EU  
and UK Regulation S.I. 2016 No. 1107 (as amended).

On request, it's possible to certificate the AKG  
according to ATEX CAT. 2G - Areas 1 - 2

## IEC Electric motors

| Coupling size | European standard size |   |   |   |     |   | German standard size |    |    | IEC Motors size        |
|---------------|------------------------|---|---|---|-----|---|----------------------|----|----|------------------------|
|               | 0.5                    | 1 | 2 | 3 | 3.5 | 4 | ZB                   | ZF | ZG |                        |
| AKG02         | ●                      | ● | ● |   |     |   | ●                    |    |    | IEC 63 Ø140 - Ø11x23   |
| AKG03         | ●                      | ● | ● |   |     |   | ●                    |    |    | IEC 71 Ø160 - Ø14x30   |
| AKG04         | ●                      | ● | ● | ● |     |   | ●                    | ●  |    | IEC 80 Ø200 - Ø19x40   |
| AKG05         | ●                      | ● | ● | ● |     |   | ●                    | ●  |    | IEC 90 Ø200 - Ø24x50   |
| AKG07         |                        | ● | ● | ● |     |   | ●                    | ●  |    | IEC 110 Ø250 - Ø28x60  |
| AKG07         |                        | ● | ● | ● |     |   | ●                    | ●  |    | IEC 112 Ø250 - Ø28x60  |
| AKG11         |                        | ● | ● | ● | ●   | ● |                      | ●  | ●  | IEC 132 Ø300 - Ø38x80  |
| AKG12         |                        |   | ● | ● | ●   | ● | ●                    | ●  | ●  | IEC 160 Ø350 - Ø42x110 |
| AKG13         |                        |   | ● | ● | ●   | ● | ●                    | ●  | ●  | IEC 180 Ø350 - Ø48x110 |
| AKG16         |                        |   | ● | ● | ●   | ● | ●                    | ●  | ●  | IEC 200 Ø400 - Ø55x110 |
| AKG18         |                        |   | ● | ● | ●   | ● | ●                    | ●  | ●  | IEC 225 Ø450 - Ø60x140 |

## KIT COUPLING FOR GEAR PUMPS

| Motors identification code |                       | Configuration example: <b>AKG02</b> <b>FS200</b> <b>Z</b> <b>EX</b> |  |  |  |
|----------------------------|-----------------------|---------------------------------------------------------------------|--|--|--|
| Size                       | Size                  |                                                                     |  |  |  |
| <b>02</b> 63 B3-B5         | <b>13</b> 180 B3-B5   |                                                                     |  |  |  |
| <b>03</b> 71 B3-B5         | <b>43</b> 63 B14      |                                                                     |  |  |  |
| <b>04</b> 80 B3-B5         | <b>44</b> 71 B14      |                                                                     |  |  |  |
| <b>05</b> 90 B3-B5         | <b>45</b> 80 B14      |                                                                     |  |  |  |
| <b>07</b> 100/112 B3-B5    | <b>46</b> 90 B14      |                                                                     |  |  |  |
| <b>11</b> 132 B3-B5        | <b>48</b> 100/112 B14 |                                                                     |  |  |  |
| <b>12</b> 160 B3-B5        |                       |                                                                     |  |  |  |

**Pump flange identification code**  
**FS200** See pages 43 - 44 - 45

**Pump identification code**  
**Z** Revision index

**ATEX certification identification code**  
**EX** ATEX Directive 2014/34/EU and UK Regulation S.I. 2016 No. 1107 (as amended)   

## KIT COUPLING FOR PISTON PUMPS VANES AND SCREWS

| Motors identification code |                      | Configuration example: <b>AKG</b> <b>M01</b> <b>Z0000</b> <b>EX</b> |  |  |  |
|----------------------------|----------------------|---------------------------------------------------------------------|--|--|--|
| Size                       | Size                 |                                                                     |  |  |  |
| <b>M01</b> 80 B3-B5        | <b>M07</b> 200 B3-B5 |                                                                     |  |  |  |
| <b>M02</b> 90 B3-B5        | <b>M08</b> 225 B3-B5 |                                                                     |  |  |  |
| <b>M03</b> 100/112 B3-B5   | <b>M09</b> 250 B3-B5 |                                                                     |  |  |  |
| <b>M04</b> 132 B3-B5       | <b>M10</b> 280 B3-B5 |                                                                     |  |  |  |
| <b>M05</b> 160 B3-B5       | <b>M11</b> 315 B3-B5 |                                                                     |  |  |  |
| <b>M06</b> 180 B3-B5       | <b>M12</b> 355 B3-B5 |                                                                     |  |  |  |

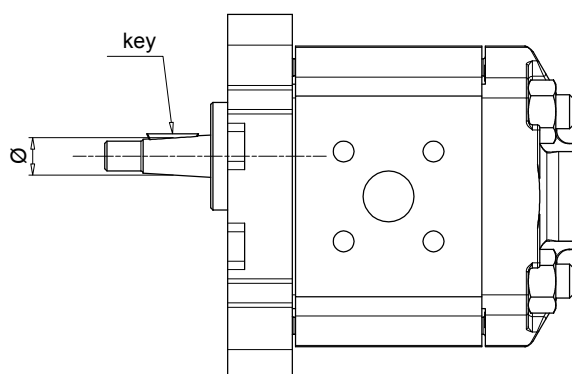
**Electric motor identification code**  
**M01** See software

**Pump identification code**  
**Z0000** See software

**ATEX certification identification code**  
**EX** ATEX Directive 2014/34/EU and UK Regulation S.I. 2016 No. 1107 (as amended)   

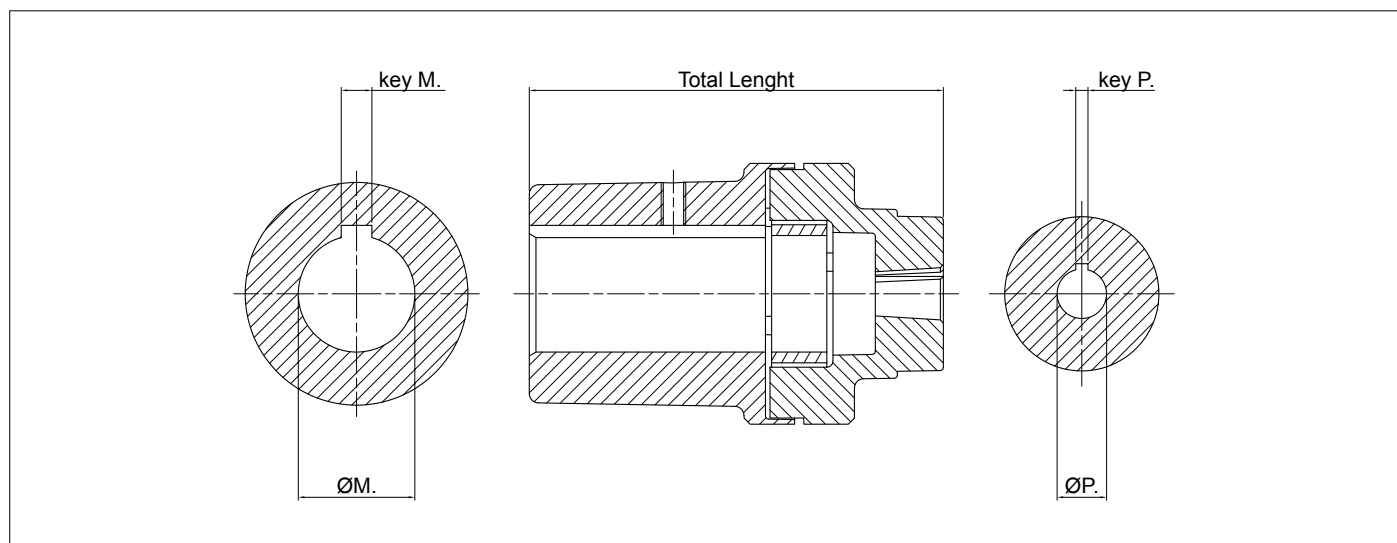
## NOTE:

The complete code of the coupling kit can be selected following the selection of electric motor and hydraulic pump on the B&C selection software available on [www.mpfiltri.com](http://www.mpfiltri.com)



### Shaft identification

| Pump group   | d    | Key        | Shaft type  | Pump half-coupling code |
|--------------|------|------------|-------------|-------------------------|
| <b>05</b>    | 6.0  | 2.0        | parallel    | <b>FS05M</b>            |
|              | 7.0  | 2.0        | parallel    | <b>FS05C</b>            |
| <b>1</b>     | 9.7  | 2.4        | tapered 1:8 | <b>FS100</b>            |
|              | 12.0 | 3.0        | parallel    | <b>FS1C0</b>            |
|              | 13.9 | 3.0        | tapered 1:8 | <b>FS1M0</b>            |
| <b>2</b>     | 17.2 | 3.2 - 4    | tapered 1:8 | <b>FS200</b>            |
| <b>3</b>     | 22.2 | 4.0        | tapered 1:8 | <b>FS300</b>            |
|              | 22.2 | 4.0        | tapered 1:8 | <b>FS300</b>            |
|              | 22.2 | 4.0        | tapered 1:8 | <b>FS300</b>            |
|              | 22.2 | 4.0        | tapered 1:8 | <b>FS300</b>            |
| <b>3.5</b>   | 25.6 | 4.76 - 5.0 | tapered 1:8 | <b>FS350</b>            |
|              | 25.6 | 4.76 - 5.0 | tapered 1:8 | <b>FS350</b>            |
| <b>4</b>     | 33.3 | 6.35 - 7.0 | tapered 1:8 | <b>FS400</b>            |
|              | 33.3 | 6.35 - 7.0 | tapered 1:8 | <b>FS400</b>            |
| <b>Bosch</b> | 9.8  | 2.0        | tapered 1:5 | <b>FSZBR</b>            |
|              | 16.9 | 3.0        | tapered 1:5 | <b>FSZFR</b>            |
|              | 25.2 | 5.0        | tapered 1:5 | <b>FSZGR</b>            |



IEC Motors B3/5 - standard gear pump

| IEC - Electric motors |                   | Pump identification code | Components               |             |                         |                            |     |        |           |        | Tot. L. |
|-----------------------|-------------------|--------------------------|--------------------------|-------------|-------------------------|----------------------------|-----|--------|-----------|--------|---------|
| Motor size            | Shaft end [Ø x L] |                          | Motor half-coupling code | Spider code | Codice Semigiunto pompa | Complete coupling kit code | ØM. | Key M. | ØP.       | Key P. |         |
| 63                    | 11x23             | <b>FS05M</b>             | SGEA01M01019             | EGE 0       | SGEA01FS05M             | AKG02FS05MZEX              | 11  | 4      | 6         | 2      | 50      |
|                       |                   | <b>FS05C</b>             |                          |             | SGEA01FS05C             | AKG02FS05CZEX              |     |        | 7         | 2      |         |
|                       |                   | <b>FS100</b>             |                          |             | SGEA01FS100             | AKG02FS100ZEX              |     |        | 9.7-1:8   | 2.4    |         |
|                       |                   | <b>FS1C0</b>             |                          |             | SGEA01FS1C0             | AKG02FS1C0ZEX              |     |        | 12        | 3      |         |
|                       |                   | <b>FS1M0</b>             |                          |             | SGEA01FS1M0             | AKG02FS1M0ZEX              |     |        | 13.9-1:8  | 3      |         |
|                       |                   | <b>FSZBR</b>             |                          |             | SGEA01FSZBR             | AKG02FSZBRZEX              |     |        | 9.8-1:5   | 2      |         |
| 71                    | 14x30             | <b>FS05M</b>             | SGEA01M02028             | EGE 0       | SGEA01FS05M             | AKG03FS05MZEX              | 14  | 5      | 6         | 2      | 59      |
|                       |                   | <b>FS05C</b>             |                          |             | SGEA01FS05C             | AKG03FS05CZEX              |     |        | 7         | 2      |         |
|                       |                   | <b>FS100</b>             |                          |             | SGEA01FS100             | AKG03FS100ZEX              |     |        | 9.7-1:8   | 2.4    |         |
|                       |                   | <b>FS1C0</b>             |                          |             | SGEA01FS1C0             | AKG03FS1C0ZEX              |     |        | 12        | 3      |         |
|                       |                   | <b>FS1M0</b>             |                          |             | SGEA01FS1M0             | AKG03FS1M0ZEX              |     |        | 13.9-1:8  | 3      |         |
|                       |                   | <b>FSZBR</b>             |                          |             | SGEA01FSZBR             | AKG03FSZBRZEX              |     |        | 9.8-1:5   | 2      |         |
| 80                    | 19x40             | <b>FS05M</b>             | SGEA01M03048             | EGE 0       | SGEA01FS05M             | AKG04FS05MZEX              | 19  | 6      | 6         | 2      | 80      |
|                       |                   | <b>FS05C</b>             |                          |             | SGEA01FS05C             | AKG04FS05CZEX              |     |        | 7         | 2      |         |
|                       |                   | <b>FS100</b>             |                          |             | SGEA01FS100             | AKG04FS100ZEX              |     |        | 9.7-1:8   | 2.4    |         |
|                       |                   | <b>FS1C0</b>             |                          |             | SGEA01FS1C0             | AKG04FS1C0ZEX              |     |        | 12        | 3      |         |
|                       |                   | <b>FS1M0</b>             |                          |             | SGEA01FS1M0             | AKG04FS1M0ZEX              |     |        | 13.9-1:8  | 3      |         |
|                       |                   | <b>FSZBR</b>             |                          |             | SGEA01FSZBR             | AKG04FSZBRZEX              |     |        | 9.8-1:5   | 2      |         |
|                       |                   | <b>FS200</b>             | SGEA21M03048             | EGE 2       | SGEA21FS200             | AKG04FS200ZEX              | 19  | 6      | 17.2-1:8  | 3.5/4  | 94      |
|                       |                   | <b>FSZFR</b>             |                          |             | SGEA21FSZFR             | AKG04FSZFRZEX              |     |        | 16.9      | 3      |         |
| 90                    | 24x50             | <b>FS05M</b>             | SGEA01M04048             | EGE 0       | SGEA01FS05M             | AKG05FS05MZEX              | 24  | 8      | 6         | 2      | 80      |
|                       |                   | <b>FS05C</b>             |                          |             | SGEA01FS05C             | AKG05FS05CZEX              |     |        | 7         | 2      |         |
|                       |                   | <b>FS100</b>             |                          |             | SGEA01FS100             | AKG05FS100ZEX              |     |        | 9.7-1:8   | 2.4    |         |
|                       |                   | <b>FS1C0</b>             |                          |             | SGEA01FS1C0             | AKG05FS1C0ZEX              |     |        | 12        | 3      |         |
|                       |                   | <b>FS1M0</b>             |                          |             | SGEA01FS1M0             | AKG05FS1M0ZEX              |     |        | 13.9-1:8  | 3      |         |
|                       |                   | <b>FSZBR</b>             |                          |             | SGEA01FSZBR             | AKG05FSZBRZEX              |     |        | 9.8-1:5   | 2      |         |
|                       |                   | <b>FS200</b>             | SGEA21M04048             | EGE 2       | SGEA21FS200             | AKG05FS200ZEX              | 24  | 8      | 17.2-1:8  | 3.5/4  | 94      |
|                       |                   | <b>FSZFR</b>             |                          |             | SGEA21FSZFR             | AKG05FSZFRZEX              |     |        | 16.9      | 3      |         |
| 100<br>112            | 28x60             | <b>FS100</b>             | SGEA21M05055             | EGE 2       | SGEA21FS100             | AKG07FS100ZEX              | 28  | 8      | 9.7-1:8   | 2.4    | 94      |
|                       |                   | <b>FS1C0</b>             |                          |             | SGEA21FS1C0             | AKG07FS1C0ZEX              |     |        | 12        | 3      |         |
|                       |                   | <b>FS1M0</b>             |                          |             | SGEA21FS1M0             | AKG07FS1M0ZEX              |     |        | 13.9-1:8  | 3      |         |
|                       |                   | <b>FSZBR</b>             |                          |             | SGEA21FSZBR             | AKG07FSZBRZEX              |     |        | 25.2-1:5  | 5      |         |
|                       |                   | <b>FS200</b>             |                          |             | SGEA21FS200             | AKG07FS200ZEX              |     |        | 17.2-1:8  | 3.2/4  |         |
|                       |                   | <b>FSZFR</b>             |                          |             | SGEA21FSZFR             | AKG07FSZFRZEX              |     |        | 16.9-1:5  | 3      |         |
|                       |                   | <b>FS25T</b>             |                          |             | SGEA21FS300             | AKG07FS300ZEX              |     |        | 22.22-1:8 | 4      |         |
|                       |                   | <b>FS300</b>             |                          |             | SGEA21FS300             | AKG07FS300ZEX              |     |        | 22.22-1:8 | 4      |         |
|                       |                   | <b>FS3M0</b>             |                          |             | SGEA21FS300             | AKG07FS300ZEX              |     |        | 22.22-1:8 | 4      |         |
|                       |                   | <b>FS3T0</b>             |                          |             | SGEA21FS300             | AKG07FS300ZEX              |     |        | 22.22-1:8 | 4      |         |

## IEC Motors B3/5 - standard gear pump

| IEC - Electric motors |                      | Pump<br>identification<br>code | Components                  |                |                            |                               |              |                |              |               |         |             |               |    |           |          |       |     |
|-----------------------|----------------------|--------------------------------|-----------------------------|----------------|----------------------------|-------------------------------|--------------|----------------|--------------|---------------|---------|-------------|---------------|----|-----------|----------|-------|-----|
| Motor<br>size         | Shaft end<br>[Ø x L] |                                | Motor half-coupling<br>code | Spider<br>code | Pump half-coupling<br>code | Complete<br>coupling kit code | ØM.          | Key M.         | ØP.          | Key P.        | Tot. L. |             |               |    |           |          |       |     |
| 132                   | 38x80                | FS100                          | SGEA31M06077                | EGE 3          | SGEA31FS100                | AKG11FS100ZEX                 | 38           | 10             | 9.7-1:8      | 2.4           | 135     |             |               |    |           |          |       |     |
|                       |                      | FS1C0                          |                             |                | SGEA31FS1C0                | AKG11FS1C0ZEX                 |              |                | 12           | 3             |         |             |               |    |           |          |       |     |
|                       |                      | FS1M0                          |                             |                | SGEA31FS1M0                | AKG11FS1M0ZEX                 |              |                | 13.9-1:8     | 3             |         |             |               |    |           |          |       |     |
|                       |                      | FSZGR                          |                             |                | SGEA31FSZGR                | AKG11FSZGRZEX                 |              |                | 25.2-1:5     | 5             |         |             |               |    |           |          |       |     |
|                       |                      | FS200                          |                             |                | SGEA31FS200                | AKG11FS200ZEX                 |              |                | 17.2-1:8     | 3.2/4         |         |             |               |    |           |          |       |     |
|                       |                      | FSZFRR                         |                             |                | SGEA31FSZFRR               | AKG11FSZFRRZEX                |              |                | 16.9-1:5     | 3             |         |             |               |    |           |          |       |     |
|                       |                      | FS25T                          |                             |                | SGEA31FS300                | AKG11FS300ZEX                 |              |                | 22.22-1:8    | 4             |         |             |               |    |           |          |       |     |
|                       |                      | FS300                          |                             |                | SGEA31FS300                | AKG11FS300ZEX                 |              |                | 22.22-1:8    | 4             |         |             |               |    |           |          |       |     |
|                       |                      | FS3M0                          |                             |                | SGEA31FS300                | AKG11FS300ZEX                 |              |                | 22.22-1:8    | 4             |         |             |               |    |           |          |       |     |
|                       |                      | FS3T0                          |                             |                | SGEA31FS300                | AKG11FS300ZEX                 |              |                | 22.22-1:8    | 4             |         |             |               |    |           |          |       |     |
|                       |                      | FS35M                          |                             |                | SGEA31FS350                | AKG11FS350ZEX                 |              |                | 25.6-1:5     | 4.76/5        |         |             |               |    |           |          |       |     |
|                       |                      | FS350                          |                             |                | SGEA31FS350                | AKG11FS350ZEX                 |              |                | 25.6-1:5     | 4.76/5        |         |             |               |    |           |          |       |     |
|                       |                      | 160                            |                             |                | 42x110                     | FSZGR                         |              |                | SGEA51M07109 | EGE 5         |         | SGEA51FSZGR | AKG12FSZGRZEX | 42 | 12        | 25.2-1:5 | 5     | 167 |
|                       |                      |                                |                             |                |                            | FS200                         |              |                |              |               |         | SGEA51FS200 | AKG12FS200ZEX |    |           | 17.2-1:8 | 3.2/4 |     |
| FSZFRR                | SGEA51FSZFRR         |                                | AKG12FSZFRRZEX              | 16.9-1:5       |                            | 3                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS25T                 | SGEA51FS300          |                                | AKG12FS300ZEX               | 22.22-1:8      |                            | 4                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS300                 | SGEA51FS300          |                                | AKG12FS300ZEX               | 22.22-1:8      |                            | 4                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS3M0                 | SGEA51FS300          |                                | AKG12FS300ZEX               | 22.22-1:8      |                            | 4                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS3T0                 | SGEA51FS300          |                                | AKG12FS300ZEX               | 22.22-1:8      |                            | 4                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS35M                 | SGEA51FS350          |                                | AKG12FS350ZEX               | 25.6-1:5       |                            | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FS350                 | SGEA51FS350          |                                | AKG12FS350ZEX               | 25.6-1:5       |                            | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| 180                   | 48x110               |                                | FSZGR                       | SGEA51M08109   |                            | EGE 5                         | SGEA51FSZGR  | AKG13FSZGRZEX  |              |               | 48      | 14          | 25.2-1:5      |    |           | 5        | 167   |     |
|                       |                      |                                | FS200                       |                |                            |                               | SGEA51FS200  | AKG13FS200ZEX  |              |               |         |             | 17.2-1:8      |    |           | 3.2/4    |       |     |
|                       |                      |                                | FSZFRR                      |                |                            |                               | SGEA51FSZFRR | AKG13FSZFRRZEX |              |               |         |             | 16.9-1:5      |    |           | 3        |       |     |
|                       |                      | FS25T                          | SGEA51FS300                 |                | AKG13FS300ZEX              |                               | 22.22-1:8    | 4              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS300                          | SGEA51FS300                 |                | AKG13FS300ZEX              |                               | 22.22-1:8    | 4              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS3M0                          | SGEA51FS300                 |                | AKG13FS300ZEX              |                               | 22.22-1:8    | 4              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS3T0                          | SGEA51FS300                 |                | AKG13FS300ZEX              |                               | 22.22-1:8    | 4              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS35M                          | SGEA51FS350                 |                | AKG13FS350ZEX              |                               | 25.6-1:5     | 4.76/5         |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS350                          | SGEA51FS350                 |                | AKG13FS350ZEX              |                               | 25.6-1:5     | 4.76/5         |              |               |         |             |               |    |           |          |       |     |
|                       |                      | 200                            | 55x110                      |                | FS200                      |                               | SGEA51M09109 | EGE 5          | SGEA51FS200  | AKG16FS200ZEX |         |             | 55            | 16 | 17.2-1:8  | 3.2/4    |       | 167 |
|                       |                      |                                |                             |                | FS300                      |                               |              |                | SGEA51FS300  | AKG16FS300ZEX |         |             |               |    | 22.22-1:8 | 4        |       |     |
|                       |                      |                                |                             |                | FS3M0                      |                               |              |                | SGEA51FS300  | AKG16FS300ZEX |         |             |               |    | 22.22-1:8 | 4        |       |     |
| FS35M                 | SGEA51FS350          |                                |                             | AKG16FS350ZEX  | 25.6-1:5                   | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FS350                 | SGEA51FS350          |                                |                             | AKG16FS350ZEX  | 25.6-1:5                   | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FSZFRR                | SGEA51FSZFRR         |                                |                             | AKG16FSZFRRZEX | 16.9-1:5                   | 3                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FSZGR                 | SGEA51FSZGR          |                                |                             | AKG16FSZGRZEX  | 25.2-1:5                   | 5                             |              |                |              |               |         |             |               |    |           |          |       |     |
| 225                   | 60x140               |                                |                             | FS300          | SGEG60M10110               | EGE 6                         |              |                | SGEG60FS300  | AKG18FS300ZEX | 60      | 18          |               |    | 22.22-1:8 | 4        | 167   |     |
|                       |                      | FS3M0                          | SGEG60FS300                 | AKG18FS300ZEX  |                            |                               | 22.22-1:8    | 4              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS35M                          | SGEG60FS350                 | AKG18FS350ZEX  |                            |                               | 25.6-1:5     | 4.76/5         |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS350                          | SGEG60FS350                 | AKG18FS350ZEX  |                            |                               | 25.6-1:5     | 4.76/5         |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FSZGR                          | SGEG60FSZGR                 | AKG18FSZGRZEX  |                            |                               | 25.2-1:5     | 5              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | 250                            | 65x140                      | FS300          |                            |                               | SGEG60M11140 | EGE 6          | SGEG60FS300  | AKG20FS300ZEX |         |             | 65            | 18 | 22.22-1:8 | 4        |       | 168 |
| FS3M0                 | SGEG60FS300          |                                |                             | AKG20FS300ZEX  | 22.22-1:8                  | 4                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS35M                 | SGEG60FS350          |                                |                             | AKG20FS350ZEX  | 25.6-1:5                   | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FS350                 | SGEG60FS350          |                                |                             | AKG20FS350ZEX  | 25.6-1:5                   | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FSZGR                 | SGEG60FSZGR          |                                |                             | AKG20FSZGRZEX  | 25.2-1:5                   | 5                             |              |                |              |               |         |             |               |    |           |          |       |     |
| 280                   | 75x140               |                                |                             | FS300          | SGEG80M12140               | EGE 8                         |              |                | SGEG80FS300  | AKG22FS300ZEX | 75      | 20          |               |    | 22.22-1:8 | 4        | 198   |     |
|                       |                      | FS3M0                          | SGEG80FS300                 | AKG22FS300ZEX  |                            |                               | 22.22-1:8    | 4              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS35M                          | SGEG80FS350                 | AKG22FS350ZEX  |                            |                               | 25.6-1:5     | 4.76/5         |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FS350                          | SGEG80FS350                 | AKG22FS350ZEX  |                            |                               | 25.6-1:5     | 4.76/5         |              |               |         |             |               |    |           |          |       |     |
|                       |                      | FSZGR                          | SGEG80FSZGR                 | AKG22FSZGRZEX  |                            |                               | 25.2-1:5     | 5              |              |               |         |             |               |    |           |          |       |     |
|                       |                      | 315                            | 80x170                      | FS300          |                            |                               | SGEG80M13170 | EGE 8          | SGEG80FS300  | AKG26FS300ZEX |         |             | 80            | 22 | 22.22-1:8 | 4        |       | 228 |
| FS3M0                 | SGEG80FS300          |                                |                             | AKG26FS300ZEX  | 22.22-1:8                  | 4                             |              |                |              |               |         |             |               |    |           |          |       |     |
| FS35M                 | SGEG80FS350          |                                |                             | AKG26FS350ZEX  | 25.6-1:5                   | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FS350                 | SGEG80FS350          |                                |                             | AKG26FS350ZEX  | 25.6-1:5                   | 4.76/5                        |              |                |              |               |         |             |               |    |           |          |       |     |
| FSZGR                 | SGEG80FSZGR          |                                |                             | AKG26FSZGRZEX  | 25.2-1:5                   | 5                             |              |                |              |               |         |             |               |    |           |          |       |     |

## IEC Electric motors B14 mounting

| IEC - Electric motors |                      | Pump<br>identification<br>code | Components                  |                |                            |                               |     |        |          |        |         |
|-----------------------|----------------------|--------------------------------|-----------------------------|----------------|----------------------------|-------------------------------|-----|--------|----------|--------|---------|
| Motor<br>size         | Shaft end<br>[Ø x L] |                                | Motor half-coupling<br>code | Spider<br>code | Pump half-coupling<br>code | Complete<br>coupling kit code | ØM. | Key M. | ØP.      | Key P. | Tot. L. |
| 63                    | 11x23                | FS05M                          | SGEA01M01019                | EGE0           | SGEA00FS05M                | AKG43FS05MZEX                 | 11  | 4      | 6        | 2      | 50      |
|                       |                      | FS05C                          |                             |                | SGEA01FS05C                | AKG43FS05CZEX                 |     |        | 7        | 2      |         |
|                       |                      | FS100                          |                             |                | SGEA01FS100                | AKG43FS100ZEX                 |     |        | 9.7-1:8  | 2.4    |         |
|                       |                      | FS1C0                          |                             |                | SGEA01FS1C0                | AKG43FS1C0ZEX                 |     |        | 12       | 3      |         |
|                       |                      | FS1M0                          |                             |                | SGEA01FS1M0                | AKG43FS1M0ZEX                 |     |        | 13.9-1:8 | 3      |         |
|                       |                      | FSZBR                          |                             |                | SGEA01FSZBR                | AKG43FSZBRZEX                 |     |        | 9.8-1:5  | 2      |         |
| 71                    | 14x30                | FS05M                          | SGEA01M02028                | EGE 0          | SGEA01FS05M                | AKG44FS05MZEX                 | 14  | 5      | 6        | 2      | 59      |
|                       |                      | FS05C                          |                             |                | SGEA01FS05C                | AKG44FS05CZEX                 |     |        | 7        | 2      |         |
|                       |                      | FS100                          |                             |                | SGEA01FS100                | AKG44FS100ZEX                 |     |        | 9.7-1:8  | 2.4    |         |
|                       |                      | FS1C0                          |                             |                | SGEA01FS1C0                | AKG44FS1C0ZEX                 |     |        | 12       | 3      |         |
|                       |                      | FS1M0                          |                             |                | SGEA01FS1M0                | AKG44FS1M0ZEX                 |     |        | 13.9-1:8 | 3      |         |
|                       |                      | FSZBR                          |                             |                | SGEA01FSZBR                | AKG44FSZBRZEX                 |     |        | 9.8-1:5  | 2      |         |
| 80                    | 19x40                | FS05M                          | SGEA01M03048                | EGE 0          | SGEA01FS05M                | AKG45FS05MZEX                 | 19  | 6      | 6        | 2      | 79      |
|                       |                      | FS05C                          |                             |                | SGEA01FS05C                | AKG45FS05CZEX                 |     |        | 7        | 2      |         |
|                       |                      | FS100                          |                             |                | SGEA01FS100                | AKG45FS100ZEX                 |     |        | 9.7-1:8  | 2.4    |         |
|                       |                      | FS1C0                          |                             |                | SGEA01FS1C0                | AKG45FS1C0ZEX                 |     |        | 12       | 3      |         |
|                       |                      | FS1M0                          |                             |                | SGEA01FS1M0                | AKG45FS1M0ZEX                 |     |        | 13.9-1:8 | 3      |         |
|                       |                      | FSZBR                          |                             |                | SGEA01FSZBR                | AKG45FSZBRZEX                 |     |        | 9.8-1:5  | 2      |         |
|                       |                      | FS200                          | SGEA21M03048                | EGE 2          | SGEA21FS200                | AKG45FS200ZEX                 | 19  | 6      | 17.2-1:8 | 3.2/4  | 87      |
|                       |                      | FSZFR                          |                             |                | SGEA21FSZFR                | AKG45FSZFRZEX                 |     |        | 16.9     | 3      |         |
| 90                    | 24x50                | FS05M                          | SGEA01M04048                | EGE 0          | SGEA01FS05M                | AKG46FS05MZEX                 | 24  | 8      | 6        | 2      | 79      |
|                       |                      | FS05C                          |                             |                | SGEA01FS05C                | AKG46FS05CZEX                 |     |        | 7        | 2      |         |
|                       |                      | FS100                          |                             |                | SGEA01FS100                | AKG46FS100ZEX                 |     |        | 9.7-1:8  | 2.4    |         |
|                       |                      | FS1C0                          |                             |                | SGEA01FS1C0                | AKG46FS1C0ZEX                 |     |        | 12       | 3      |         |
|                       |                      | FS1M0                          |                             |                | SGEA01FS1M0                | AKG46FS1M0ZEX                 |     |        | 13.9-1:8 | 3      |         |
|                       |                      | FSZBR                          |                             |                | SGEA01FSZBR                | AKG46FSZBRZEX                 |     |        | 9.8-1:5  | 2      |         |
|                       |                      | FS200                          | SGEA21M04048                | EGE 2          | SGEA21FS200                | AKG46FS200ZEX                 | 24  | 8      | 17.2-1:8 | 3.5/4  | 87      |
|                       |                      | FSZFR                          |                             |                | SGEA21FSZFR                | AKG46FSZFRZEX                 |     |        | 16.9     | 3      |         |
| 100<br>112            | 28x60                | FS05M                          | SGEA21M05055                | EGE 2          | SGEA21FS05M                | AKG48FS05MZEX                 | 28  | 8      | 6        | 2      | 94      |
|                       |                      | FS05C                          |                             |                | SGEA21FS05C                | AKG48FS05CZEX                 |     |        | 7        | 2      |         |
|                       |                      | FS100                          |                             |                | SGEA21FS100                | AKG48FS100ZEX                 |     |        | 9.7-1:8  | 2.4    |         |
|                       |                      | FS1C0                          |                             |                | SGEA21FS1C0                | AKG48FS1C0ZEX                 |     |        | 12       | 3      |         |
|                       |                      | FS1M0                          |                             |                | SGEA21FS1M0                | AKG48FS1M0ZEX                 |     |        | 13.9-1:8 | 3      |         |
|                       |                      | FSZBR                          |                             |                | SGEA21FSZBR                | AKG48FSZBRZEX                 |     |        | 9.8-1:5  | 2      |         |
|                       |                      | FS200                          |                             |                | SGEA21FS200                | AKG48FS200ZEX                 |     |        | 17.2-1:8 | 3.5/4  |         |
|                       |                      | FSZFR                          |                             |                | SGEA21FSZFR                | AKG48FSZFRZEX                 |     |        | 16.9     | 3      |         |

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