

# POWER TRANSMISSION PRODUCTS

COUPLINGS



PASSION TO PERFORM







## A WORLDWIDE LEADER IN THE FIELD OF HYDRAULIC FILTRATION EQUIPMENT.

Our company started life in 1964, when Bruno Pasotto decided to attempt to cater for the requests of a market still to be fully explored, with the study, design, development, production and marketing of a vast range of filters for hydraulic equipment, capable of satisfying the needs of manufacturers in all sectors. The quality of our products, our extreme competitiveness compared with major international producers and our constant activities of research, design and development has made us a worldwide leader in the field of hydraulic circuit filtering. Present for over 50 years in the market, we have played a truly decisive role in defining our sector, and by now we are a group capable of controlling our entire chain of production, monitoring all manufacturing processes to guarantee superior quality standards and to provide concrete solutions for the rapidly evolving needs of customers and the market.

## MARKET LEADER



Our work is based on a skillful interaction between advanced technology and fine workmanship, **customizing products according to specific market requests**, focusing strongly on innovation and quality, and following every step in the manufacturing of both standard and special products, fully respecting customer expectations.



Our customer-oriented philosophy, which enables us to satisfy all customer requests **rapidly and with personalized products**, makes us a **dynamic and flexible enterprise**. The possibility of constantly controlling and monitoring the entire production process is essential to allow us to guarantee the quality of our products.

## WORLDWIDE PRESENCE

Our foreign Branches enable us to offer a diversified range of products that allow us to successfully face the aggressive challenge of international competition, and also to maintain a stable presence at a local level.

The Group boasts **8 business branches**





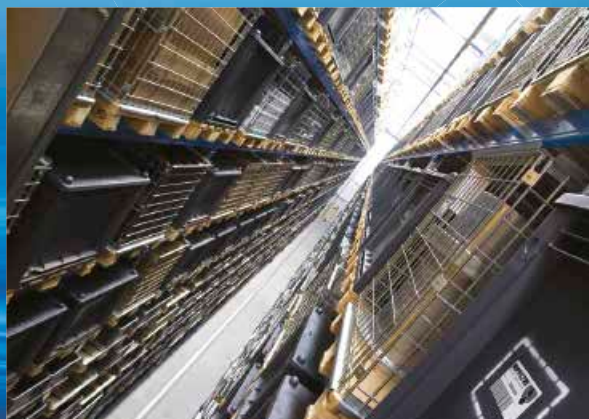
## TECHNOLOGY

Our constant **quest for excellence in quality and technological innovation** allows us to offer only the best solutions and services for applications in many fields, including general industry, test rigs, lubrication, heavy engineering, renewable energies, naval engineering, offshore engineering, aviation systems, emerging technologies and mobile plant (i.e. tractors, excavators, concrete pumps, platforms).



## AND PRODUCTION

Our high level of technological expertise means **we can rely entirely on our own resources, without resorting to external providers.** This in turn enables us to satisfy a growing number of customer requests, also exploiting our constantly updated range of machines and equipment, featuring **fully-automated workstations** capable of **24-hour production.**





### SUCTION FILTERS

Flow rates  
up to 875 l/min

Mounting:  
- Tank immersed  
- In-Line  
- In tank with  
shut off valve  
- In tank  
with flooded suction

### RETURN FILTERS

Flow rates  
up to 3000 l/min

Pressure  
up to 20 bar

Mounting:  
- In-Line  
- Tank top  
- In single  
and duplex designs

### RETURN / SUCTION FILTERS

Flow rates  
up to 300 l/min

Pressure  
up to 80 bar

Mounting:  
- In-Line  
- Tank top

### SPIN-ON FILTERS

Flow rates  
up to 365 l/min

Pressure  
up to 35 bar

Mounting:  
- In-Line  
- Tank top

### LOW & MEDIUM PRESSURE FILTERS

Flow rates  
up to 3000 l/min

Pressure  
up to 80 bar

Mounting:  
- In-Line  
- Parallel manifold version  
- In single  
and duplex designs

### HIGH PRESSURE FILTERS

Flow rates  
up to 750 l/min

Pressure from 110 bar  
up to 560 bar

Mounting:  
- In-Line  
- Manifold  
- In single  
and duplex designs



# PRODUCT RANGE

MP Filtri can offer a vast and articulated range of products for the global market, suitable for all industrial sectors using hydraulic equipment.

This includes filters (suction, return, return/suction, spin-on, pressure, stainless steel pressure) and structural components (motor/pump bell-housings, transmission couplings, damping rings, foot brackets, aluminium tanks, cleaning covers).

We can provide all the skills and solutions required by the modern hydraulics industry to monitor contamination levels and other fluid conditions.

Mobile filtration units and a full range of accessories allow us to supply everything necessary for a complete service in the hydraulic circuits.



## STAINLESS STEEL HIGH PRESSURE FILTERS

Flow rates up to 150 l/min

Pressure from 320 bar up to 1000 bar

Mounting:

- In-Line
- Manifold
- In single and duplex designs

## CONTAMINATION MONITORING PRODUCTS

- Online, in-line particle counters
- Off-line Bottle sampling products
- Fully calibrated using relevant ISO standards
- A wide range of variants to support fluid types and communication protocols

## MOBILE FILTRATION UNITS

Flow rates from 15 l/min up to 200 l/min

## POWER TRANSMISSION PRODUCTS

- Aluminium bell-housings for motors from 0.12 kW to 400 kW
- Couplings in Aluminium Cast Iron - Steel
- Damping rings
- Foot bracket
- Aluminium tanks
- Cleaning covers

## ACCESSORIES

- Oil filler and air breather plugs
- Optical and electrical level gauges
- Pressure gauge valve selectors
- Pipe fixing brackets
- Pressure gauges

# POWER TRANSMISSION PRODUCTS

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# BELL-HOUSING & COUPLING SIZING

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

### DATA REQUIRED

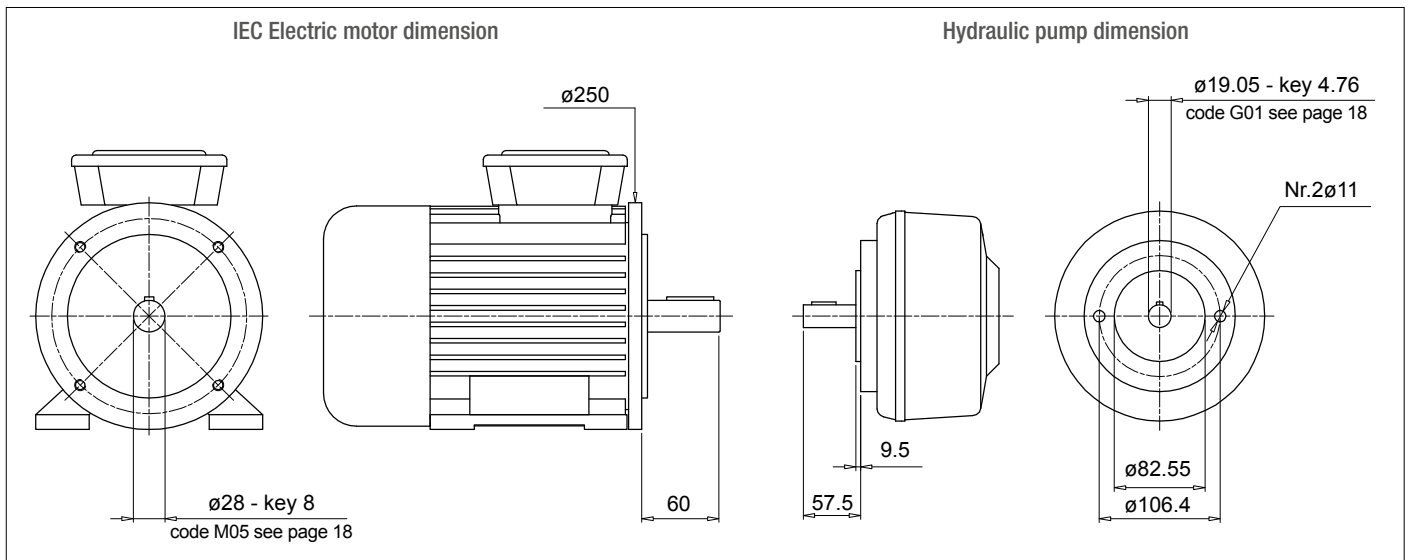
- Electric motor power/motor size
- Manufacturer and pump type

### 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

- $H = 60 + 18 + 57.5 = 135.5$  mm (18 = Sp spider - see page 31)
- Choose type of bell-housing (LMC - LMS):  
For monobloc bell-housing LMC/LDC series see pages 63 ÷ 69  
For Low noise bell-housing LMS/LDS series see pages 71 ÷ 77  
For Multi-components 2-3 bell housing series see pages 79 ÷ 99

#### 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 63 ÷ 69 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 48-49).

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 71 ÷ 77 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 48-49).

For the specific case:

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

Definitive bell-housing code **LMS250AFSA060**



# BELL-HOUSING & COUPLING SIZING

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

### Coupling selection

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

For IEC Electric motor size 100/112, the half-coupling is **SGEA21M05060FG**

#### 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

$$\text{LMC} = 138 \text{ mm} - 60 - 18 - 9.5 = 50.5 \text{ mm}$$

$$\text{LMS} = 148 \text{ mm} - 60 - 18 - 9.5 = 60.5 \text{ mm}$$

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: **SGEA21G01050FG**

Half coupling for LMS: **SGEA21G01050FG**

### SOFTWARE FOR AUTOMATIC CALCULATION

available on the web site [www.mpfiltri.com](http://www.mpfiltri.com)

Vane / Piston / Screw pumps

AKA  
AKMM03Z0066

Pump  
Manufacturer: ATOS  
Pump type: PFE  
Pump model: PFE31 Shaft 1

HYDRAULIC PUMP - Technical Data  
L1: 57.5  
d1: 19.05  
Ch: 4.76  
s: 9.5  
PD: 82.55  
Int: 106  
Nr: 2  
F: M10

Electric Motor  
N. Poles: 2P  
Type: 83-85  
Size: 100-112  
Kw: 3-4  
Hp: 4-5,44

ELECTRIC MOTOR - Technical Data  
L: 60  
d1: 28  
Flg.: 250  
Ch: 8

Coupling material  
 Aluminium  
 Cast iron  
 Allow alternative material

Result  
Coupling: M03 - Z0066  
Drilling Pump: S060  
Pump Shaft: G01  
Motor Shaft: M05

Monobloc Bellhousing:   
Modular Bellhousing:   
Silenced Bellhousing:

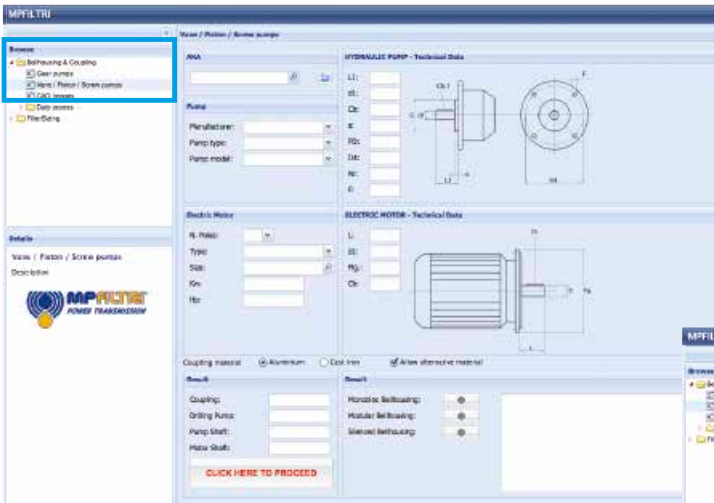
Monobloc Bellhousing:  
Pump half-coupling with grub screw  
For other solution please contact technical department

Modular Bellhousing: OK  
Silenced Bellhousing: OK

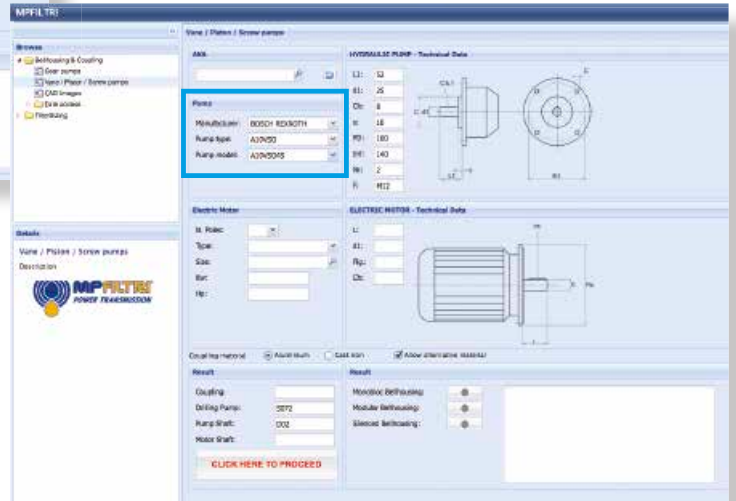
[CLICK HERE TO PROCEED](#)

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

**Step 1** Select "BELL-HOUSING & COUPLING"



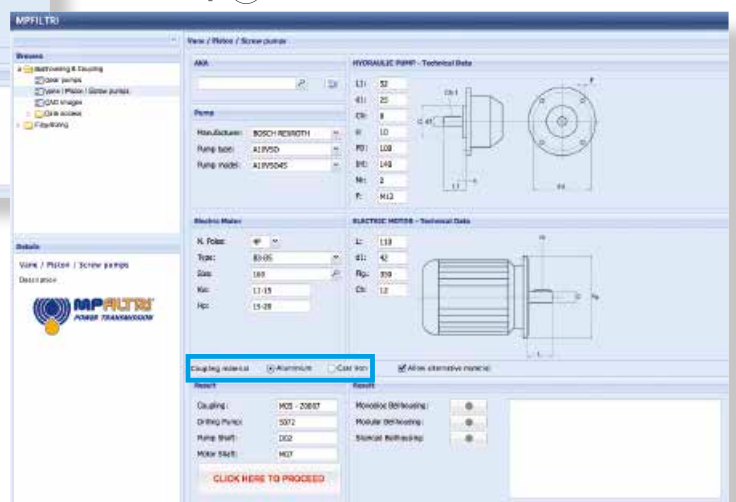
**Step 2** Choose Manufacturer: select "Pump type" and "Pump model"



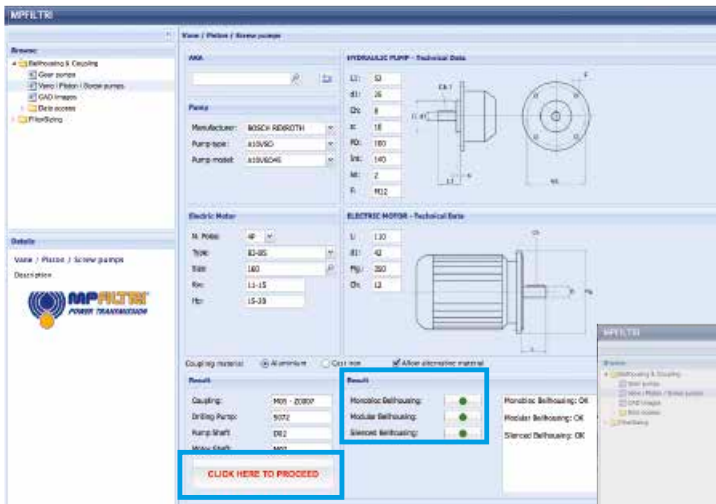
**Step 3** Choose nr° of poles of "Electric motors": select "Electric motors type" and "Electric motors size"



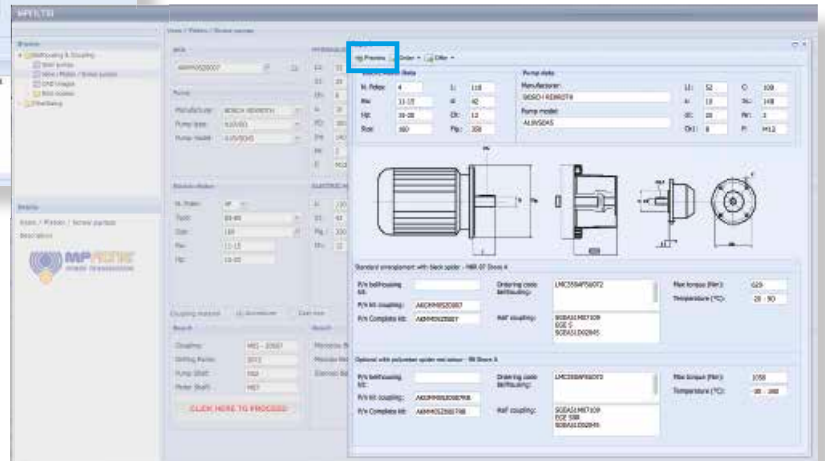
**Step 4** Choose Coupling material



**Step 5** Push **"CLICK HERE TO PROCEED"**, then choose best solution for your application.

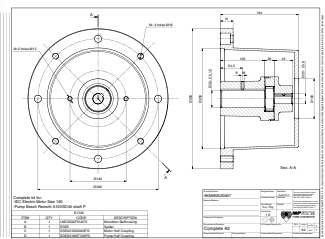
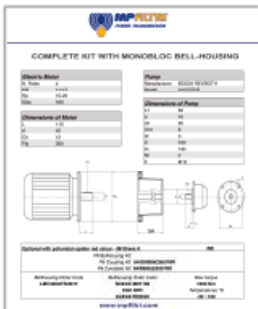


**Step 6** Push **"PREVIEW"** to download the reports.



**Step 7** 

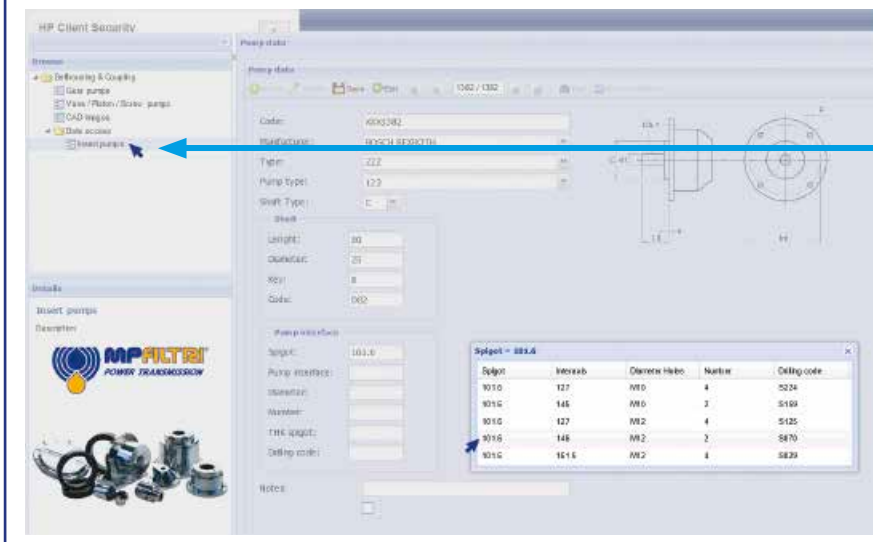
Download PDF Datasheet and "DXF Drawing" of your selection



You can't find the pump on the system?

**NEW FEATURE!!**

Insert pump's dimension on the section **"INSERT PUMP"** and follow the instructions to achieve the couplings components code



**Drive couplings provide the means by which power is transmitted from the electric motor to the hydraulic pump.**

**By virtue of their flexible structure, they are able to compensate angular and radial misalignments between motor and pump, and appreciably attenuate the noise generated through the drive line.**

**The couplings illustrated are available in aluminium and cast iron versions, with a variety of spider options, and will cover a range of applications using electric motors from size 63, rated 0.15 kW, up to size 400 rated 400 kW.**

**Grub screw on all half-couplings.  
Cast iron half-coupling SGE<sup>\*\*\*</sup> available with screw mounted.  
Steel half-couplings SGE<sup>s</sup> and SGDR available with screw.**

**Standard ATEX 2014/34/EU**



**Half-couplings are available to use in hazardous area.**

**The couplings are certified according to Standard ATEX 2014/34/EU - Category certified 2G - Area 1 and 2.**

**Other information available on our web site "[www.mpfltri.com](http://www.mpfltri.com)".**

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**The half-couplings SGE<sup>\*\*\*</sup> series are in conformity to normative DIN 740/2.  
The max torque to transmit is always less than the max torque that the coupling can transmit.**

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SGEA - SGEG - SGES - EGE	21
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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 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.

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

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	$\beta$ [°]
SGE * 01	1.5°
SGE * 21	
SGE * 31	
SGE * 40	
SGE * 51	
SGE * 60	
SGE * 80	
SGE * 90	

### Max admissible angular 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

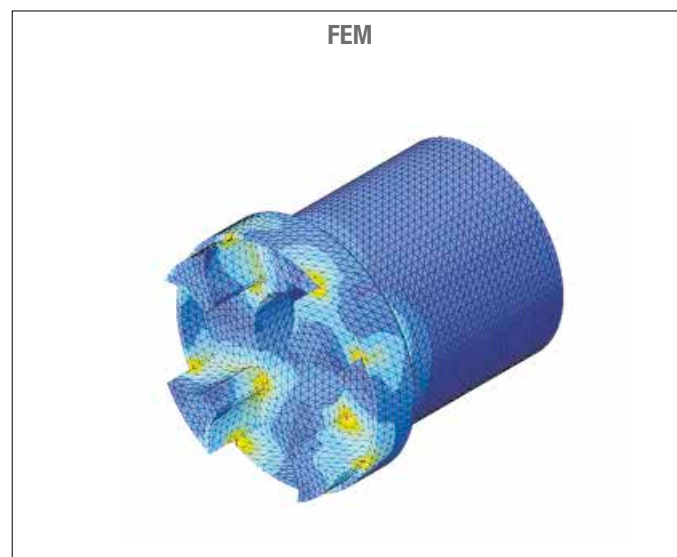
## Standard ATEX 2014/34/EU

Half-couplings are available to use in hazardous area.

The couplings are certified according to Standard ATEX 2014/34/EU - 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 >**  $Mt \times S = \text{Nm}$

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> 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> e.g. lifting equipment - 120-150 work cycles per hour	<b>1.5</b>
<b>Pumps, non-uniform load</b> 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.

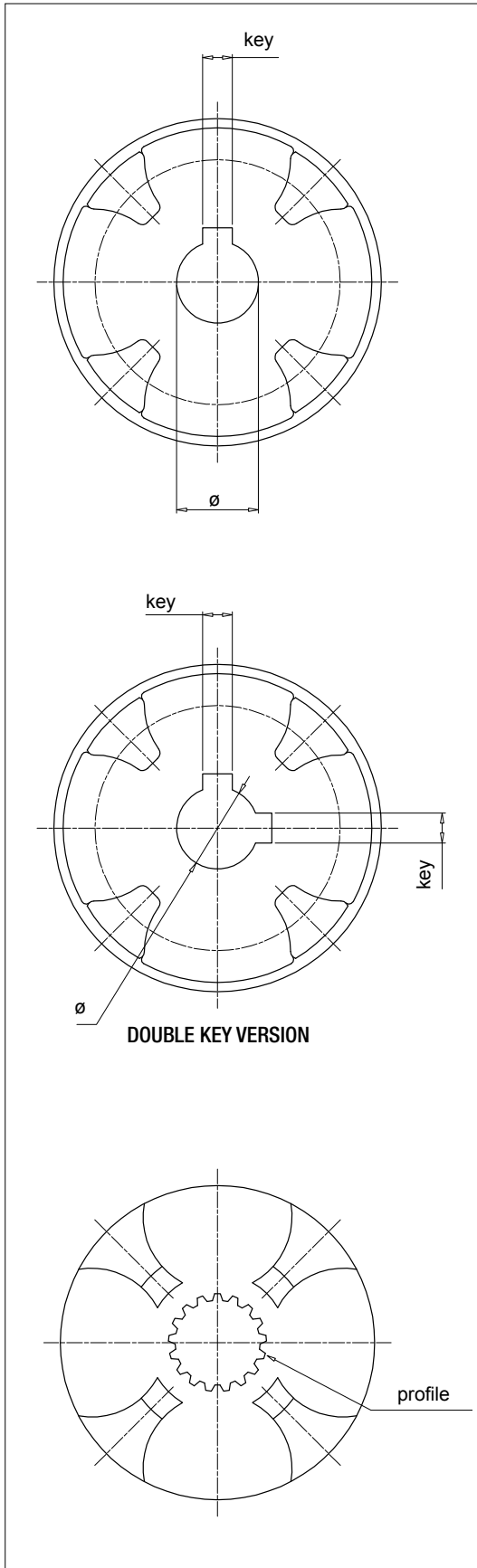
**Note:** When selecting the coupling, remember that for pumps with splined shaft, only cast iron couplings of the SGEG series can be used.

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>SGEA01</b>	43	15	20	
<b>SGEA21</b>	68	160	190	
<b>SGEA31</b>	75	340	380	
<b>SGEA51</b>	109.5	550	620	<b>ALUMINIUM</b>
<b>SGEG01</b>	40	20	30	
<b>SGEG30</b>	80	400	450	
<b>SGEG40</b>	95	550	620	
<b>SGEG60</b>	120	760	850	
<b>SGEG80</b>	160	2200	2500	
<b>SGEG90</b>	200	5500	6100	<b>CAST IRON</b>
<b>SGES40</b>	95	550	620	
<b>SGES60</b>	120	760	850	
<b>SGES80</b>	180	2200	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		key		Code
[inch]	[mm]	[inch]	[mm]	
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 12/48	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 18	18	<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>



# SGEA - SGEG - SGES - EGE series

Aluminium - Cast Iron - Steel couplings



## Technical data

**Half-couplings materials**

SGEA: Pressure die cast aluminium  
SGEG: Cast Iron en-GJL-250 (gg25)  
SGES: Steel C40

**Spider materials**

EGE\*\* series: Oil-resistant NBR 85 Shore A - black colour  
EGE\*\*RR series: in polyurethane Laripur - 92 Shore A - LPR202-95A - red colour

**Compatibility with fluids**

- 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**

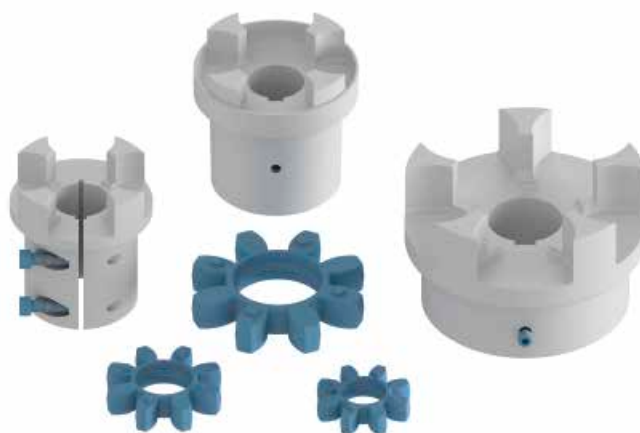
Any applications not covered by the normal indications contained in this catalogue must be evaluated and approved by MP Filtri Technical and Sales Department

**Temperature**

Spider oil-resistant rubber: from -20 °C to +90 °C  
Spider polyurethane resin: from -30 °C to +120 °C

**Note**

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



Range

IEC Electric Motors size	Aluminium	G25 UNI 5007 Cast Iron - C40 Carbon Steel				
	Shaft ISO 3019-2	Shaft ISO 3019-2	Shaft ANSI B92. 1A 1976	Shaft DIN 5480	Shaft DIN 5481	Shaft DIN 5482
IEC 80 Ø 200 - Ø 19x40	●	●	●	●	●	●
IEC 90 Ø 200 - Ø 24x50	●	●	●	●	●	●
IEC 100 Ø 250 - Ø 28x60	●	●	●	●	●	●
IEC 112 Ø 250 - Ø 28x60	●	●	●	●	●	●
IEC 132 Ø 300 - Ø 38x80	●	●	●	●	●	●
IEC 160 Ø 350 - Ø 42x110	●	●	●	●	●	●
IEC 180 Ø 350 - Ø 48x110	●	●	●	●	●	●
IEC 200 Ø 400 - Ø 55x110	●	●	●	●	●	●
IEC 225 Ø 450 - Ø 60x140		●	●	●	●	●
IEC 250 Ø 550 - Ø 65x140		●	●	●	●	●
IEC 280 Ø 550 - Ø 75x140		●	●	●	●	●
IEC 315 Ø 660 - Ø 80x170		●	●	●	●	●
IEC 355 Ø 800 - Ø 90x170		●	●	●	●	●

IEC Electric Motors size	European standard size						German standard size		
	0.5	1	2	3	3.5	4	ZB	ZF	ZG
IEC 63 Ø 140 - Ø 11x23	●	●	●				●		
IEC 71 Ø 160 - Ø 14x30	●	●	●				●		
IEC 80 Ø 200 - Ø 19x40	●	●	●	●			●	●	
IEC 90 Ø 200 - Ø 24x50	●	●	●	●			●	●	
IEC 110 Ø 250 - Ø 28x60		●	●	●	●		●	●	
IEC 112 Ø 250 - Ø 28x60		●	●	●	●		●	●	
IEC 132 Ø 300 - Ø 38x80		●	●	●	●	●		●	●
IEC 160 Ø 350 - Ø 42x110			●	●	●	●		●	●
IEC 180 Ø 350 - Ø 48x110			●	●	●	●		●	●
IEC 200 Ø 400 - Ø 55x110			●	●	●	●		●	●
IEC 225 Ø 450 - Ø 60x140				●	●	●			●



# SGEA-SGEG-SGES

## Designation & Ordering code

### PUMP HALF-COUPLING FOR PARALLEL SHAFT

**Pump half-coupling** Configuration example: **SGE** **A** **21** **G02** **050** **2E** **FG**

**SGE**

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**Series and material**

**A** Aluminium

**G** Cast Iron

**S** Steel

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Size	SGEA	SGEG	SGES
	01	01	01
	21	30	30
	31	40	40
	51	60	60
		80	80
		90	90

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**Pump shaft code**

**G02** See page 18

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**Length**

**050** See pages 26 ÷ 30

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**Double key way (available combinations only)**

**2E** See page 18 (parallel shaft - double key)

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**Group screw (necessary for SGEA series only)**

**FG**

### PUMP HALF-COUPLING FOR SPLINED SHAFT

**Pump half-coupling** Configuration example: **SGE** **G** **40** **PD02** **050**

**SGE**

---

**Series and material**

**G** Cast Iron

**S** Steel

---

Size	SGEG	SGES
	01	01
	30	30
	40	40
	60	60
	80	80
	90	90

---

**Pump shaft code**

**PD02** See pages 19

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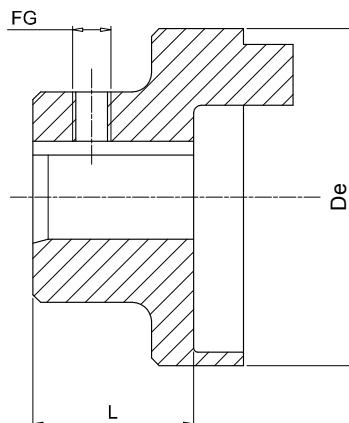
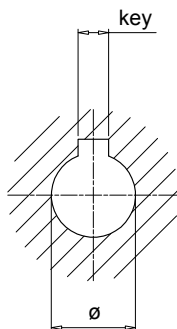
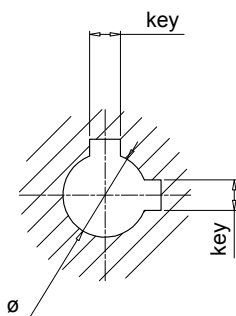
**Length**

**050** See pages 28 ÷ 30

A. C. motor 50 Hz			Motor output n=3000 RPM 2 poles		Coupling size	Motor output n=1500 RPM 4 poles		Coupling size	Motor output n=1000 RPM 6 poles		Coupling size	Motor output n=750 RPM 8 poles		Coupling size
Size	Shaft end d x l [mm]		Output P [kW]	Torque T [Nm]		Output P [kW]	Torque T [Nm]		Output P [kW]	Torque T [Nm]		Output P [kW]	Torque T [Nm]	
	2-pole	4, 6, 8 pole												
<b>56</b>	9 x 20		0.09	0.32		0.06	0.43		0.037	0.43				
			0.12	0.41		0.09	0.64		0.045	0.52				
<b>63</b>	11 x 23		0.18	0.62	01	0.12	0.88	01	0.06	0.7	01			01
			0.25	0.86		0.18	1.3		0.09	1.1				
<b>71</b>	14 x 30		0.37	1.3		0.25	1.8		0.18	2		0.09	1.4	
			0.55	1.9		0.37	2.5		0.25	2.8		0.12	1.8	
<b>80</b>	19 x 40		0.75	2.5		0.55	3.7		0.37	3.9		0.18	2.5	
			1.1	3.7		0.75	5.1		0.55	5.8		0.25	3.5	
<b>90S</b>	24 x 50		1.5	5	21	1.1	7.5	21	0.75	8	21	0.37	5.3	21
<b>90L</b>			2.2	7.4		1.5	10		1.1	12		0.55	7.9	
<b>100L</b>	28 x 60		3	9.8		2.2	15		1.5	15		0.75	11	
			3	20		1.5	15		1.1	16				
<b>112M</b>			4	13		4	27		2.2	22		1.5	21	
<b>132S</b>	38 x 80		5.5	18	31	5.5	36	31	3	30	31	2.2	30	31
			7.5	25		7.5	49		4	40		3	40	
<b>132M</b>									5.5	55				
<b>160M</b>	42 x 110		11	36		11	72		7.5	75		4	54	
			15	49		7.5	75		5.5	74				
<b>160L</b>			18.5	60	40/51	15	98	40/51	11	109	40/51	7.5	100	40/51
<b>180M</b>	48 x 110		22	71		18.5	121							
<b>180L</b>			22	144		15	148		11	145				
<b>200L</b>	55 x 110		30	97		30	196		18.5	181		15	198	
			37	120		22	215							
<b>200S</b>	55 x 110	60 x 140			60	37	240	60			60	18.5	244	60
<b>225M</b>			45	145		45	292		30	293		22	290	
<b>250M</b>	60 x 140	65 x 140	55	177		55	356		37	361		30	392	
<b>280S</b>	75 x 140		75	241		75	484		45	438		37	483	
<b>280M</b>			90	289		90	581		55	535		45	587	
<b>315S</b>	65 x 140		110	353		110	707		75	727		55	712	
<b>315M</b>			132	423		132	849		90	873		75	971	
<b>315L</b>	65 x 140	80 x 170	160	513	80	160	1030	80	110	1070	80	90	1170	80
			200	641		200	1290		132	1280		110	1420	
<b>315</b>	85 x 170								160	1550		132	1710	
			250	802		250	1600		200	1930		160	2070	
<b>355</b>	75 x 140		315	1010		315	2020		250	2410		200	2580	
			355	1140		355	2280							
<b>400</b>	80 x 170	110 x 210	400	1280	90	400	2570	90	315	3040	90	250	3220	90
			500	1600		500	3210		400	3850		315	4060	
			560	1790		560	3580		450	4330		355	4570	
			630	2020		630	4030		500	4810		400	5150	
			710	2270		710	4540		560	5390		450	5790	
			800	2560		800	5120		630	6060		500	6420	

## Dimensions

Double key version



**Notes:**

- Screw not included
- Double key version pump side only

### Motor half-coupling

IEC - Electric motors Motor size	Shaft end [d x l]	Half-coupling code	De	Dimensions [mm]				FG	Weight [kg]
				L	ø	key			
63	11x23	<b>SGEA01M01019FG</b>	44.0	21	11	4	M5	0.07	
71	14x30	<b>SGEA01M02028FG</b>	44.0	28	14	5	M5	0.08	
80	19x40	<b>SGEA01M03040FG</b>	44.0	40	19	6	M5	0.12	
		<b>SGEA21M03040FG</b>	70.0	40	19	6	M6	0.30	
90	24x50	<b>SGEA01M04048FG</b>	44.0	48	24	8	M5	0.13	
		<b>SGEA21M04048FG</b>	70.0	48	24	8	M6	0.28	
100 - 112	28x60	<b>SGEA21M05060FG</b>	70.0	60	28	8	M6	0.33	
		<b>SGEA31M05060FG</b>	85.0	60	28	8	M8	0.48	
		<b>SGEA21M06080FG</b>	70.0	80	38	10	M6	0.44	
132	38x80	<b>SGEA31M06077FG</b>	85.0	77	38	10	M8	0.78	
		<b>SGEA51M06077FG</b>	109.5	77	38	10	M8	1.60	
		<b>SGEA51M07109FG</b>	109.5	109	42	12	M8	1.60	
160	42x110	<b>SGEA51M07109FG</b>	109.5	109	42	12	M8	1.60	
180	48x110	<b>SGEA51M08109FG</b>	109.5	109	48	14	M8	1.60	
200	55x110	<b>SGEA51M09109FG</b>	109.5	109	55	16	M8	1.90	

### Pump half-couplings

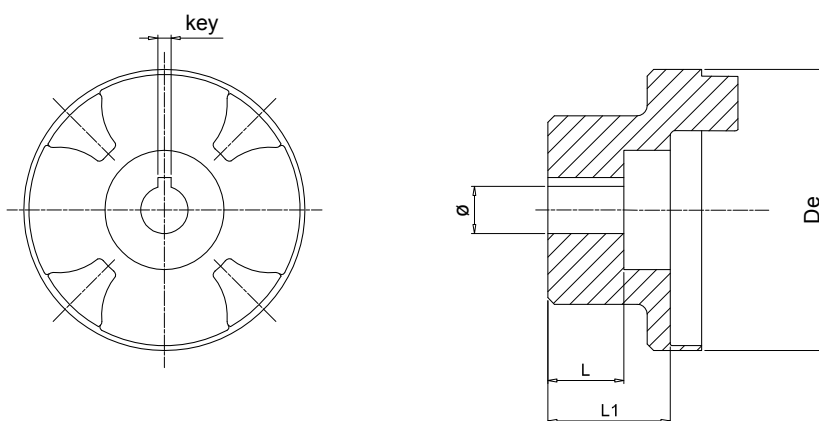
Half-coupling code	Dimensions [mm]					Standard lengths [mm]								FG		
	ø min	ø max	De	L min	L max	17	23	30	40	44	48	-	-		-	-
<b>SGEA01 *** **</b>	11	19	44.0	17	50	17	23	30	40	44	48	-	-	-	-	M5
<b>SGEA21 *** **</b>	15	24	70.0	23	50	35	40	42	44	48	50	-	-	-	-	M6
<b>SGEA21 *** **</b>	25	28	70.0	40	60	40	42	44	48	50	55	58	60	-	-	M6
<b>SGEA31 *** **</b>	18	32	85.0	40	60	42	45	48	50	52	55	58	60	-	-	M8
<b>SGEA31 *** **</b>	38	42	85.0	60	80	60	65	70	77	80	-	-	-	-	-	M8
<b>SGEA51 *** **</b>	18	40	109.5	40	70	42	45	48	50	52	55	58	60	65	70	M8
<b>SGEA51 *** **</b>	38	55	109.5	70	109	70	75	80	85	90	95	100	105	109	-	M8

Complete the half-coupling code with the shaft's code and length

Example: **SGEA51D02040FG**

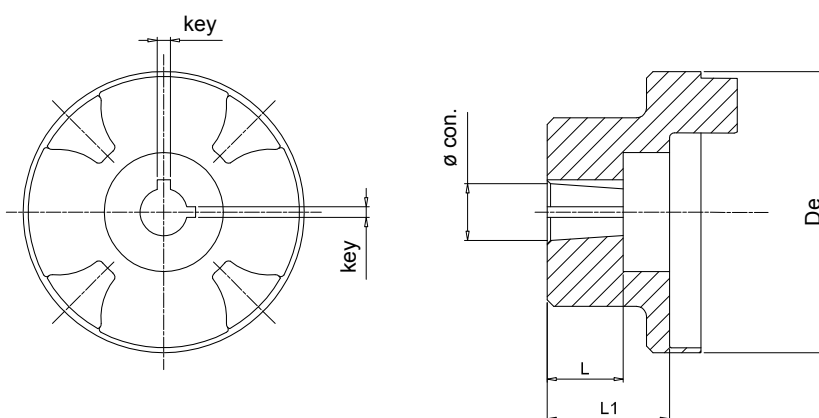
**D02** - see page 18

**040** - table "pump half-coupling - standard lengths"



### Half-coupling for gear pumps - parallel

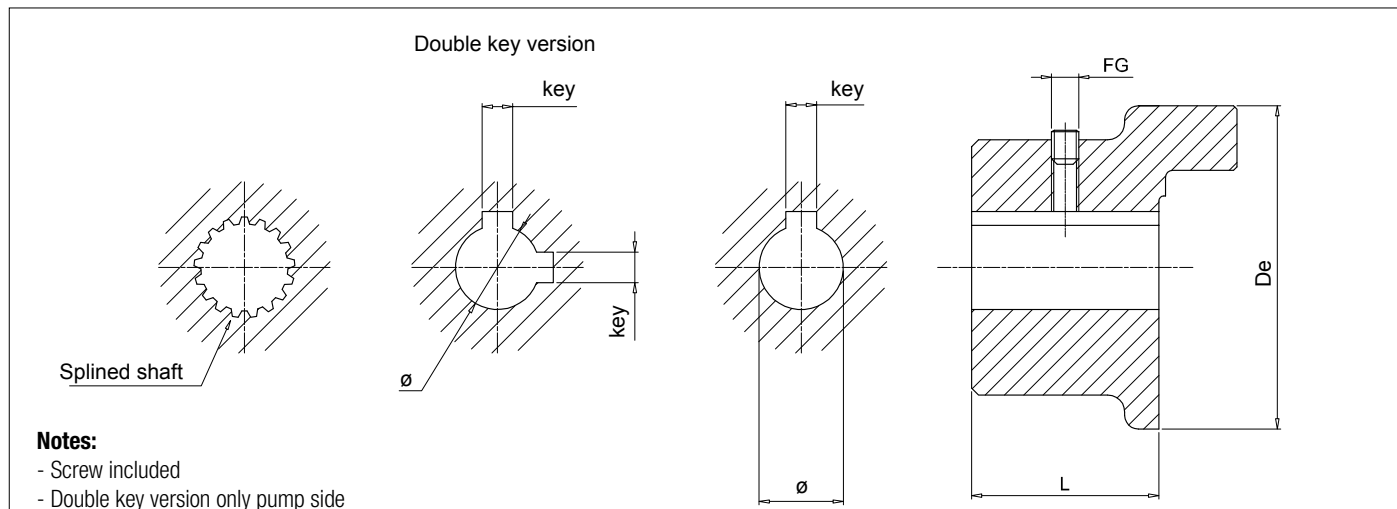
Half-coupling code	Dimensions [mm]					Weight [kg]
	De	L	L1	ø	key	
<b>SGEA01FS05M</b>	44	10.0	17.0	6	2	0.07
<b>SGEA01FS05C</b>	44	10.0	17.0	7	2	0.08
<b>SGEA01FS1C0</b>	44	-	17.0	12	3	0.13
<b>SGEA21FS1C0</b>	70	14.5	21.5	12	3	0.48
<b>SGEA31FS1C0</b>	85	14.5	37.0	12	3	1.90



### Half-coupling for gear pumps - tapered

Half-coupling code	Dimensions [mm]					Weight [kg]	Conical
	De	L	L1	ø	key		
<b>SGEA01FS100</b>	44.0	14.5	16.0	9.7	2.4	0.12	1:8
<b>SGEA01FS1M0</b>	44.0	16.0	16.0	13.9	3	0.30	1:8
<b>SGEA01FSZBR</b>	44.0	11.5	14.5	9.8	2	0.28	1:5
<b>SGEA21FS100</b>	70.0	14.5	21.5	9.7	2.4	0.33	1:8
<b>SGEA21FS1M0</b>	70.0	18.5	21.5	13.9	3	0.78	1:8
<b>SGEA21FS200</b>	70.0	21.5	21.5	17.2	3.2 - 4	1.60	1:8
<b>SGEA21FSZFR</b>	70.0	20.0	21.5	16.9	3	1.60	1:5
<b>SGEA21FS300</b>	70.0	27.0	41.0	21.6	4	1.60	1:8
<b>SGEA31FS100</b>	85.0	14.5	37.0	9.7	2.4	1.90	1:8
<b>SGEA31FS1M0</b>	85.0	17.5	36.0	13.9	3	0.33	1:8
<b>SGEA31FS200</b>	85.0	23.0	37.0	17.2	3.2 - 4	0.48	1:8
<b>SGEA31FS300</b>	85.0	27.0	37.0	21.6	4	0.78	1:8
<b>SGEA31FS350</b>	85.0	35.0	37.0	25.6	4.76 - 5	1.60	1:8
<b>SGEA31FSZFR</b>	85.0	17.0	37.0	16.9	3	1.60	1:5
<b>SGEA31FSZGR</b>	85.0	27.0	34.0	25.2	5	1.60	1:5
<b>SGEA51FS200</b>	109.5	23.5	32.0	17.2	3.2 - 4	1.90	1:8
<b>SGEA51FS300</b>	109.5	25.0	32.0	21.6	4	1.90	1:8
<b>SGEA51FS350</b>	109.5	32.0	32.0	25.6	4.76-5	1.60	1:8
<b>SGEA51FSZFR</b>	109.5	19.5	32.0	16.9	3	1.90	1:5
<b>SGEA51FSZGR</b>	109.5	25.0	32.0	24.6	5	1.90	1:5

## Dimensions



### Motor half-coupling

IEC - Electric motors		Half-coupling code	Dimensions [mm]					Weight [kg]
Motor size	Shaft end [d x l]		De	L	ø	key	FG	
63	11x23	<b>SGEG01M01021</b>	44	21	11	4	M6	0.32
71	14x30	<b>SGEG01M02028</b>	44	28	14	5	M6	0.42
80	19x40	<b>SGEG01M03040</b>	44	40	19	6	M6	0.61
90	24x50	<b>SGEG01M04050</b>	44	50	24	8	M6	0.77
100 - 112	28x60	<b>SGEG30M05060</b>	80	60	28	8	M8	2.35
		<b>SGEG40M05060</b>	95	60	28	8	M8	2.65
132	38x80	<b>SGEG30M06080</b>	80	80	38	10	M8	3.15
		<b>SGEG40M06080</b>	95	80	38	10	M8	3.55
160	42x110	<b>SGEG40M07110</b>	95	110	42	12	M8	4.70
180	48x110	<b>SGEG40M08110</b>	95	110	48	14	M8	4.55
200	55x110	<b>SGEG40M09110</b>	95	110	55	16	M8	4.35
		<b>SGEG60M09110</b>	120	110	55	16	M8	9.00
225	60x140	<b>SGEG60M10140</b>	120	140	60	18	M8	12.30
250	65x140	<b>SGEG60M11140</b>	120	140	65	18	M8	12.00
		<b>SGEG80M11140</b>	160	140	65	18	M8	18.30
280	75x140	<b>SGEG80M12140</b>	160	140	75	20	M10	17.70
		<b>SGEG90M12100</b>	200	100	75	20	M10	21.00
315	80x170	<b>SGEG80M13170</b>	160	170	80	22	M10	20.60
		<b>SGEG90M13100</b>	200	100	80	22	M10	20.00
355	95x140	<b>SGEG90M15100</b>	200	100	95	25	M10	19.00
400	100x210	<b>SGEG90M16100</b>	200	100	100	28	M10	18.00

### Pump half-couplings

Half-coupling code	Dimensions [mm]					Standard lengths [mm]
	ø min	ø max	De	L min	L max	
<b>SGEG01 *** **</b>	-	24	40	20	50	every 5 mm
<b>SGEG30 *** **</b>	-	42	80	30	80	
<b>SGEG40 *** **</b>	-	55	95	30	110	
<b>SGEG60 *** **</b>	-	75	120	40	140	
<b>SGEG80 *** **</b>	-	85	160	50	170	
<b>SGEG90 *** **</b>	-	100	200	40	100	

Complete the half-coupling code with the shaft's code and length

Example: **SGEG40PD02040**

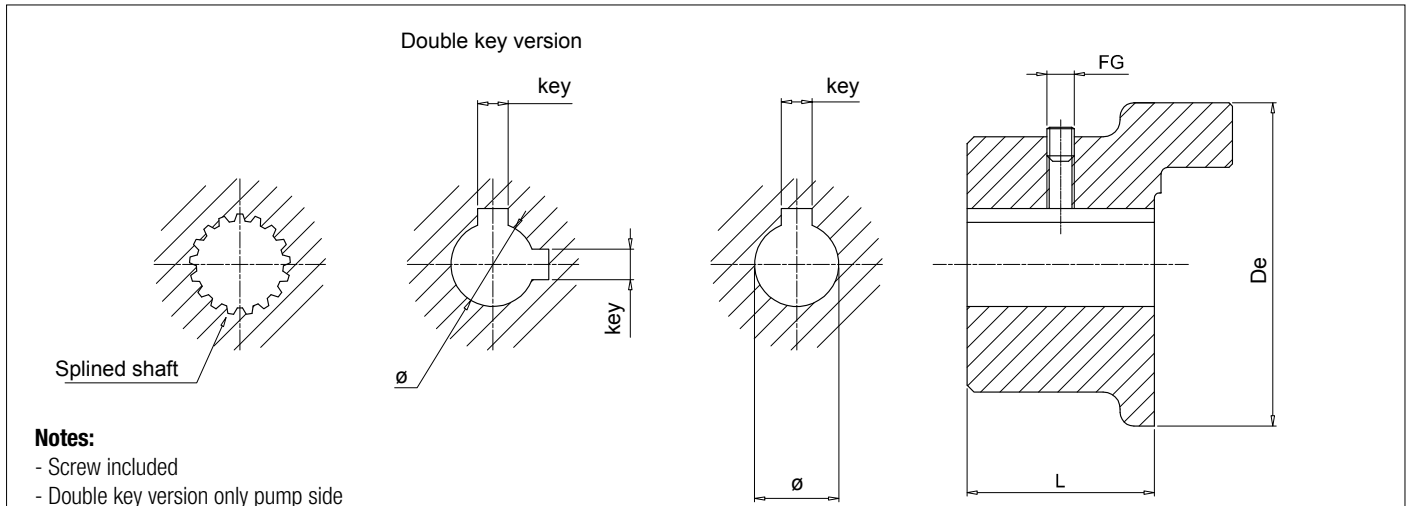
**PD02** - see page 19

**040** - table "pump half-coupling - standard lengths"

All SGEG series half-couplings are supplied with a grub screw hole as standard, and with a grub screw **UNI 5929 DIN 916** fitted to the hub.

**Note:** For lengths other than those indicated in "Pump half-coupling" table, contact MP Filtri Technical and Sales Department.





### Motor half-coupling

IEC - Electric motors		Half-coupling code	Dimensions [mm]					Weight [kg]
Motor size	Shaft end [d x l]		De	L	ø	key	FG	
63	11x23	<b>SGES01M01021</b>	44	21	11	4	M6	0.32
71	14x30	<b>SGES01M02028</b>	44	28	14	5	M6	0.42
80	19x40	<b>SGES01M03040</b>	44	40	19	6	M6	0.61
90	24x50	<b>SGES01M04050</b>	44	50	24	8	M6	0.77
100 - 112	28x60	<b>SGES31M05060</b>	80	60	28	8	M8	2.35
		<b>SGES40M05060</b>	95	60	28	8	M8	2.65
132	38x80	<b>SGES31M06080</b>	80	80	38	10	M8	3.15
		<b>SGES40M06080</b>	95	80	38	10	M8	3.55
160	42x110	<b>SGES40M07110</b>	95	110	42	12	M8	4.70
180	48x110	<b>SGES40M08110</b>	95	110	48	14	M8	4.55
200	55x110	<b>SGES40M09110</b>	95	110	55	16	M8	4.35
		<b>SGES60M09110</b>	120	110	55	16	M8	9.00
225	60x140	<b>SGES60M10140</b>	120	140	60	18	M8	12.30
250	65x140	<b>SGES60M11140</b>	120	140	65	18	M8	12.00
		<b>SGES80M11140</b>	160	140	65	18	M8	18.30
280	75x140	<b>SGES80M12140</b>	160	140	75	20	M10	17.70
		<b>SGES90M12100</b>	200	100	75	20	M10	21.00
315	80x170	<b>SGES80M13170</b>	160	170	80	22	M10	20.60
		<b>SGES90M13100</b>	200	100	80	22	M10	20.00
355	95x140	<b>SGES90M15100</b>	200	100	95	25	M10	19.00
400	100x210	<b>SGES90M16100</b>	200	100	100	28	M10	18.00

### Pump half-couplings

Half-coupling code	Dimensions [mm]					Standard lengths [mm]
	ø min	ø max	De	L min	L max	
<b>SGES01 *** **</b>	-	24	40	20	50	every 5 mm
<b>SGES30 *** **</b>	-	42	80	30	80	
<b>SGES40 *** **</b>	-	55	95	30	110	
<b>SGES60 *** **</b>	-	75	120	40	140	
<b>SGES80 *** **</b>	-	85	160	50	170	
<b>SGES90 *** **</b>	-	100	200	40	100	

Complete the half-coupling code with the shaft's code and length

Example: **SGES40PD02040**

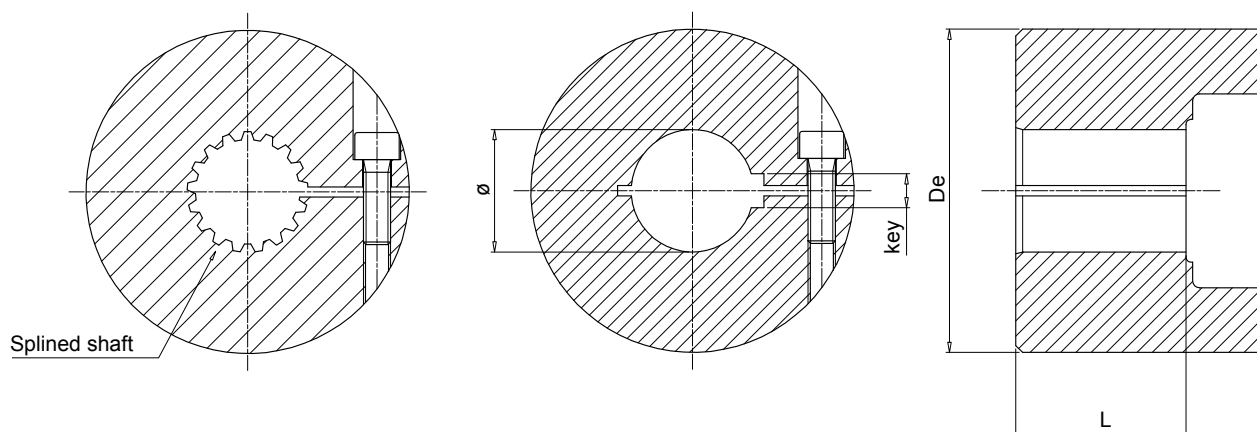
**PD02** - see page 19

**040** - table "pump half-coupling - standard lengths"

All SGES series half-couplings are supplied with a grub screw hole as standard, and with a grub screw **UNI 5929 DIN 916** fitted to the hub.

**Note:** For lengths other than those indicated in "Pump half-coupling" table, contact MP Filtri Technical and Sales Department.

## Dimensions



### Motor half-coupling

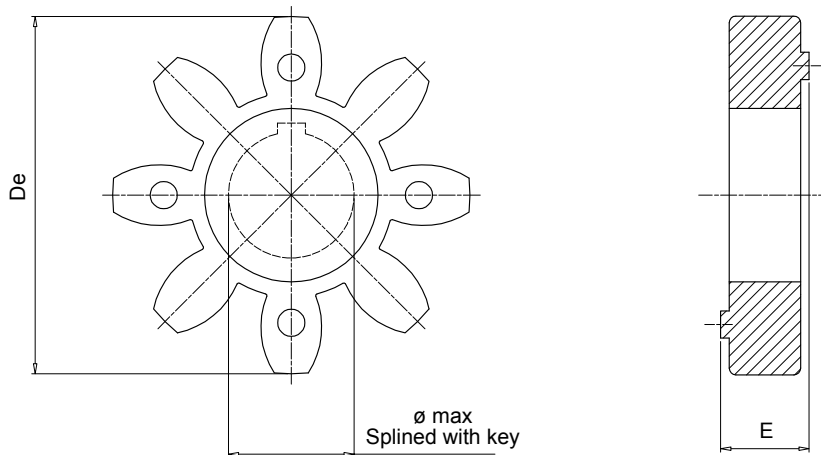
IEC - Electric motors		Half-coupling code	Dimensions [mm]					Screw	Weight [kg]
Motor size	Shaft end [d x l]		De	L	ø	key			
132	38x80	<b>SGES40M06050GO</b>	95	50	38	10	M8	4.00	
160	42x110	<b>SGES40M07065GO</b>	95	65	42	12	M8	5.00	
180	48x110	<b>SGES40M08065GO</b>	95	65	48	14	M8	5.00	
200	55x110	<b>SGES60M09085GO</b>	120	85	55	16	M10	8.00	
225	60x140	<b>SGES60M10085GO</b>	120	85	60	18	M10	8.00	
250	65x140	<b>SGES60M11085GO</b>	120	85	65	18	M10	8.00	
280	75x140	<b>SGES60M12085GO</b>	120	85	75	20	M10	8.00	
315	80x170	<b>SGES80M13085GO</b>	160	85	80	22	M10	13.00	

### Pump half-couplings

Half-coupling code	Dimensions [mm]			
	ø min	ø max	De	L
<b>SGES40 *** **</b>	-	55	95	35
<b>SGES60 *** **</b>	-	65	120	65
<b>SGES80 *** **</b>	-	75	160	85

Complete the half-coupling designation with the pump interface code and the length.

Example: **SGES40PD02035GO** (see page 19).

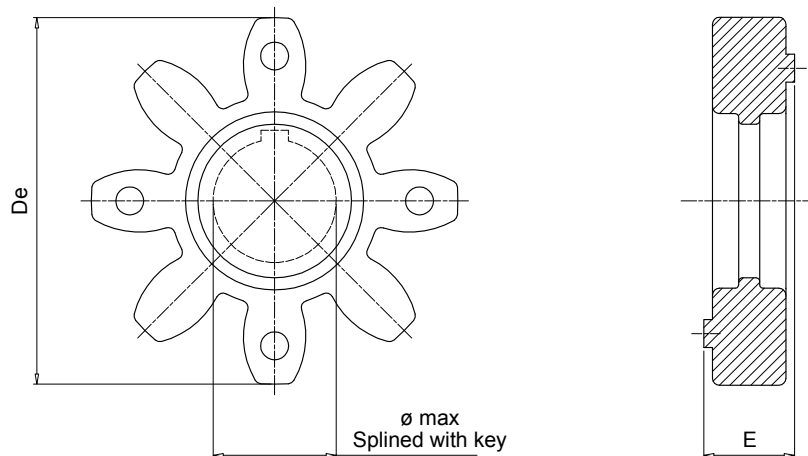


**Notes:**

Made of black oil-resistant rubber, these components serve to interconnect the two halves (motor - pump) of a flexible coupling.

### EGE\*\* series

Code	Half-coupling code	Dimensions [mm]			Nominal torque Nm	Max torque Nm	Weight [kg]
		E	De	ø max			
<b>EGE0</b>	SGEA01 - SGEG01	15	40	16	10	20	0.006
<b>EGE2</b>	SGEA21	18	65	25	95	190	0.02
<b>EGE3</b>	SGEA31 - SGEG30	22	80	35	190	380	0.04
<b>EGE5</b>	SGEA51	26	105	45	310	620	0.06
<b>EGE4</b>	SGEG40 - SGES40	24	95	40	310	620	0.09
<b>EGE6</b>	SGEG60 - SGES60	28	120	55	430	860	0.13
<b>EGE8</b>	SGEG80 - SGES80	38	160	75	1250	2500	0.36



**Notes:**

Made in polyurethane Laripur - LPR202-95A, red colour, are suitable for applications where high levels of torque are transmitted.

### EGE\*\*RR series

Code	Half-coupling code	Dimensions [mm]			Nominal torque Nm	Max torque Nm	Weight [kg]
		E	De	ø max			
<b>EGE0RR</b>	SGEA01 - SGEG01	15	40	16	15	30	0.006
<b>EGE2RR</b>	SGEA21	18	65	25	115	230	0.02
<b>EGE3RR</b>	SGEA31 - SGEG30	22	80	35	250	500	0.04
<b>EGE5RR</b>	SGEA51	26	105	45	400	800	0.06
<b>EGE4RR</b>	SGEG40 - SGES40	24	95	40	380	760	0.09
<b>EGE6RR</b>	SGEG60 - SGES60	28	120	55	550	1100	0.13
<b>EGE8RR</b>	SGEG80 - SGES80	38	160	75	1400	2900	0.36
<b>EGE9RP</b>	SGEG90	48	200	95	8900	9900	0.59

Version for extreme temperatures available on request.

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

### Metric cylindrical finish bore H7 Keyway to DIN 6885 sheet 1 (JS9)

Size	Materials	Diameter / Key [mm]																									
		8	9	10	11	12	13	14	15	15	16	16	16	17	18	19	19	20	20	22	22	22	24	24	25	25	
		3	3	3	4	4	5	5	5	4	4	5	5	5	6	5	6	5	6	6	8	5	6	8	8	7	
01	Aluminium				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	Steel				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	Cast Iron				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
21	Aluminium									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Steel									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
31	Aluminium																•	•	•	•	•	•	•	•	•	•	•
	Steel																•	•	•	•	•	•	•	•	•	•	•
	Cast Iron																•	•	•	•	•	•	•	•	•	•	•
40	Aluminium																										
	Steel				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
51	Aluminium																										
	Steel																										
	Cast Iron																										
60	Aluminium																										
	Steel																	•	•	•	•	•	•	•	•	•	•
	Cast Iron																	•	•	•	•	•	•	•	•	•	•
80	Aluminium																										
	Steel																										
	Cast Iron																										
90	Aluminium																										
	Steel																										
	Cast Iron																										

Size	Materials	Diameter / Key [mm]																									
		28	30	30	32	32	35	35	38	40	42	45	48	50	52	55	60	63	65	70	75	80	82	90	95	100	
		8	10	8	10	8	10	8	10	12	12	14	14	14	16	16	18	18	18	20	20	22	22	25	25	28	
01	Aluminium																										
	Steel																										
	Cast Iron																										
21	Aluminium	•																									
	Steel	•																									
	Cast Iron																										
31	Aluminium	•	•	•	•	•	•	•	•																		
	Steel	•	•	•	•	•	•	•	•																		
	Cast Iron	•	•	•	•	•	•	•	•																		
40	Aluminium																										
	Steel	•	•	•	•	•	•	•	•	•	•	•	•														
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•														
51	Aluminium	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•											
	Steel																										
	Cast Iron																										
60	Aluminium																										
	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								
80	Aluminium																										
	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90	Aluminium																										
	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

**Imperial cylindrical finish bore H7 Keyway to DIN 6885 sheet 1 (JS9)**

Size	Materials	Diameter / Key [mm]															
		11.11 3.18	12.7 3.18	13.45 3.18	15.87 4.76	15.87 3.97	17.46 4.76	19.02 3.17	19.05 4.76	19.05 6.35	22.22 4.76	22.22 6.35	22.22 4	25.4 6.35	25.4 4.76	26.94 4.76	28.58 6.35
01	Aluminium				•	•	•	•	•	•	•	•	•	•	•	•	•
	Steel				•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron				•	•	•	•	•	•	•	•	•	•	•	•	•
21	Aluminium							•	•	•	•	•	•	•	•	•	
	Steel							•	•	•	•	•	•	•	•	•	
	Cast Iron																
31	Aluminium							•	•	•	•	•	•	•	•	•	
	Steel							•	•	•	•	•	•	•	•	•	
	Cast Iron							•	•	•	•	•	•	•	•	•	
40	Aluminium																
	Steel				•	•	•	•	•	•	•	•	•	•	•	•	
	Cast Iron				•	•	•	•	•	•	•	•	•	•	•	•	
51	Aluminium							•	•	•	•	•	•	•	•	•	
	Steel																
	Cast Iron																
60	Aluminium																
	Steel							•	•	•	•	•	•	•	•	•	
	Cast Iron							•	•	•	•	•	•	•	•	•	
80	Aluminium																
	Steel							•	•	•	•	•	•	•	•	•	
	Cast Iron							•	•	•	•	•	•	•	•	•	
90	Aluminium																
	Steel												•	•	•	•	
	Cast Iron												•	•	•	•	

Size	Materials	Diameter / Key [mm]															
		28.58 7.94	31.75 6.35	31.75 7.94	34.94 7.94	38.1 9.52	41.27 9.52	41.6 12	44.45 11.11	47.63 12.7	50.8 12.7	53.94 12.7	60.33 15.88	60.33 12.7	73.03 19.05	85.73 22.23	92.07 22.22
01	Aluminium	•															
	Steel	•															
	Cast Iron	•															
21	Aluminium	•															
	Steel	•															
	Cast Iron																
31	Aluminium	•	•	•	•	•	•	•	•								
	Steel	•	•	•	•	•	•	•	•								
	Cast Iron	•	•	•	•	•	•	•	•								
40	Aluminium																
	Steel	•	•	•	•	•	•	•	•	•	•	•					
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•					
51	Aluminium	•	•	•	•	•	•	•	•	•	•	•	•	•			
	Steel																
	Cast Iron																
60	Aluminium																
	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80	Aluminium																
	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90	Aluminium																
	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



### SAE involute spline (angle 30°) - ANS.B.92.1.1970

Size	Materials	Nr. of th - Diametral pitch															
		9 16/32	10 16/32	11 16/32	12 16/32	13 16/32	14 16/32	15 16/32	21 16/32	23 16/32	27 16/32	33 16/32	40 16/33	14 12/24	16 12/24	17 12/24	13 8/16
01	Steel	•	•	•	•	•	•	•						•			
	Cast Iron	•	•	•	•	•	•	•						•			
21	Steel	•	•	•	•	•	•	•						•			
	Cast Iron	•	•	•	•	•	•	•						•			
31	Steel	•	•	•	•	•	•	•	•	•	•			•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•			•	•	•	•
40	Steel			•	•	•	•	•	•	•	•	•		•	•	•	•
	Cast Iron			•	•	•	•	•	•	•	•	•		•	•	•	•
60	Steel					•	•	•	•	•	•	•		•	•	•	•
	Cast Iron					•	•	•	•	•	•	•		•	•	•	•
80	Steel								•	•	•	•	•		•	•	•
	Cast Iron								•	•	•	•	•		•	•	•
90	Steel								•	•	•	•	•		•	•	•
	Cast Iron								•	•	•	•	•		•	•	•

Size	Materials	Nr. of th - Diametral pitch														
		15 8/16	17 8/16	20 24/48	21 24/48	23 24/48	25 24/48	26 24/48	28 24/48	29 24/48	32 24/48	23 40/80	36 48/96	41 48/96	47 48/96	33 32/64
01	Steel			•	•	•			•	•		•	•	•	•	
	Cast Iron			•	•	•			•	•		•	•	•	•	
21	Steel			•	•	•	•	•	•	•		•	•	•	•	
	Cast Iron			•	•	•	•	•	•	•		•	•	•	•	
31	Steel	•		•	•	•	•	•	•	•	•	•	•	•	•	
	Cast Iron	•		•	•	•	•	•	•	•	•	•	•	•	•	
40	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
60	Steel	•	•	•	•	•	•	•	•	•	•			•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•			•	•	•
80	Steel	•	•								•					•
	Cast Iron	•	•								•					•
90	Steel	•	•								•					•
	Cast Iron	•	•								•					•

## Spline bores to DIN 5480

Size	Materials	Nr. of th - Size										
		13 18x1.25	14 20x1.25	14 30x2	14 32x2	16 35x2	17 37x2	18 25x1.25	18 38x2	18 40x2	18 42x2	18 60x3
01	Steel	•	•									
	Cast Iron	•	•									
21	Steel	•	•	•	•	•		•				
	Cast Iron	•	•	•	•	•		•				
31	Steel	•	•	•	•	•	•	•				
	Cast Iron	•	•	•	•	•	•	•				
40	Steel	•	•	•	•	•	•	•	•	•	•	
	Cast Iron	•	•	•	•	•	•	•	•	•	•	
60	Steel	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•
80	Steel				•	•	•		•	•	•	•
	Cast Iron				•	•	•		•	•	•	•
90	Steel								•	•	•	•
	Cast Iron								•	•	•	•

Size	Materials	Nr. of th - Size									
		21 28x1.25	21 45x2	22 70x3	24 32x1.25	24 50x2	26 55x2	28 60x2	29 38x1.25	34 70x2	38 80x2
01	Steel										
	Cast Iron										
21	Steel	•									
	Cast Iron	•									
31	Steel	•			•				•		
	Cast Iron	•			•				•		
40	Steel	•	•		•				•		
	Cast Iron	•	•		•				•		
60	Steel	•	•		•	•	•	•	•		
	Cast Iron	•	•		•	•	•	•	•		
80	Steel		•	•	•	•	•	•	•	•	•
	Cast Iron		•	•	•	•	•	•	•	•	•
90	Steel		•	•		•	•	•	•	•	•
	Cast Iron		•	•		•	•	•	•	•	•

### Spline bores to DIN 5481

Size	Materials	Nr. of th - Size									
		28 8x10	30 10x12	31 12x14	32 15x17	33 17x20	34 21x24	35 26x30	36 38x34	41 60x65	
01	Steel	•	•	•	•	•	•				
	Cast Iron	•	•	•	•	•	•				
21	Steel	•	•	•	•	•	•	•			
	Cast Iron	•	•	•	•	•	•	•			
31	Steel			•	•	•	•	•	•		
	Cast Iron			•	•	•	•	•	•		
40	Steel							•	•	•	
	Cast Iron							•	•	•	
60	Steel								•	•	•
	Cast Iron								•	•	•
80	Steel										•
	Cast Iron										•
90	Steel										•
	Cast Iron										•

### Spline bores to DIN 5482

Size	Materials	Nr. of th - Size															
		8 A15x12	9 A17x14	10 A18x15	12 A20x17	13 A22x19	14 A25x22	15 A28x25	16 A30x27	17 A32x28	18 A35x31	19 A38x34	20 A40x36	21 A42x38	22 A45x41	23 A48x44	24 A50x45
01	Steel	•	•	•	•	•	•										
	Cast Iron	•	•	•	•	•	•										
21	Steel	•	•	•	•	•	•	•	•	•	•	•					
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•					
31	Steel							•	•	•	•	•					
	Cast Iron							•	•	•	•	•					
40	Steel																
	Cast Iron																
60	Steel																
	Cast Iron																
80	Steel																
	Cast Iron																
90	Steel																
	Cast Iron																

Size	Materials	Nr. of th - Size														
		25 A52x47	26 A55x50	27 A58x53	28 A60x55	29 A62x57	30 A65x60	31 A68x62	32 A70x64	33 A72x66	34 A75x69	35 A78x72	36 A80x74	37 A82x76	38 A85x79	39 A88x82
01	Steel															
	Cast Iron															
21	Steel															
	Cast Iron															
31	Steel															
	Cast Iron															
40	Steel	•	•													
	Cast Iron	•	•													
60	Steel	•	•	•	•	•	•									
	Cast Iron	•	•	•	•	•	•									
80	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90	Steel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Cast Iron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•







# SGDR series

Steel couplings



## Technical data

### Gear couplings materials

Couplings: Steel C40  
Sleeve: Nylon PA66 Blue color

### Temperature

Sleeve Nylon PA66: from -20 °C to +90 °C

### Compatibility with fluids

- 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

### Note

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

### 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



## IEC Electric motors

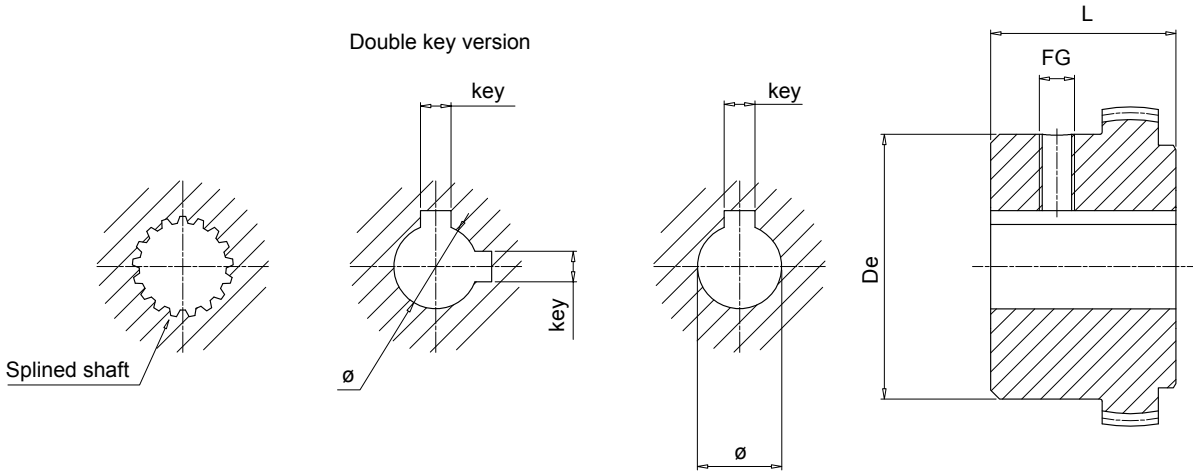
IEC Electric Motors size	C40 Carbon Steel				
	Shaft ISO 3019-2	Shaft ANSI B92.1A 1976	Shaft DIN 5480	Shaft DIN 5481	Shaft DIN 5482
IEC 80 ø 200 - ø 19x40	●	●	●	●	●
IEC 90 ø 200 - ø 24x50	●	●	●	●	●
IEC 100 ø 250 - ø 28x60	●	●	●	●	●
IEC 112 ø 250 - ø 28x60	●	●	●	●	●
IEC 132 ø 300 - ø 38x80	●	●	●	●	●
IEC 160 ø 350 - ø 42x110	●	●	●	●	●
IEC 180 ø 350 - ø 48x110	●	●	●	●	●
IEC 200 ø 400 - ø 55x110	●	●	●	●	●

Designation & Ordering code

BLANK HALF-COUPLING	
<b>Pump half-coupling</b> SGDR	Configuration example: SGDR 28 PB
<b>Size</b> 28 42 55	
<b>Without bore</b> PB	

HALF-COUPLING FOR PARALLEL SHAFT	
<b>Pump half-coupling</b> SGDR	Configuration example: SGDR 28 G02 040 2E
<b>Size</b> 28 42 55	
<b>Bore size code</b> G02 See page 18	
<b>Length</b> 040 See page 42	
<b>Double key way (available combinations only)</b> 2E See page 18 (Parallel shaft - double key only)	

HALF-COUPLING FOR SPLINED SHAFT	
<b>Pump half-coupling</b> SGDR	Configuration example: SGDR 28 PD02 040
<b>Size</b> 28 42 55	
<b>Bore size code</b> PD02 See page 19	
<b>Length</b> 040 See page 42	



**Notes:**

- Screw included
- Double key version only pump side

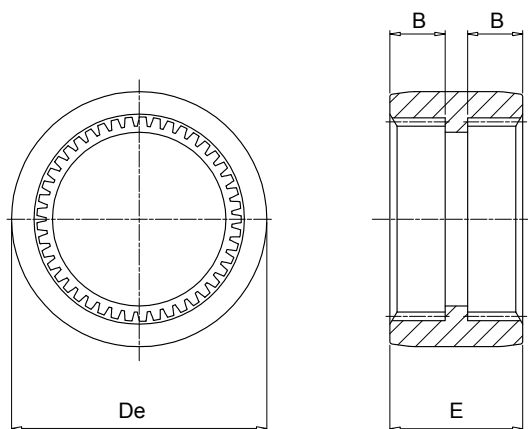
### Motor half-coupling

IEC - Electric motors		Half-coupling code	Dimensions [mm]					Weight [kg]
Motor size	Shaft end [d x l]		De	L	ø	key	Fg	
80	19x40	<b>SGDR28M03040</b>	45	40	19	6	M6	0.5
90	24x50	<b>SGDR28M04040</b>	45	40	24	8	M6	0.5
100-112	28x60	<b>SGDR28M05040</b>	45	40	28	8	M6	0.5
132	38x80	<b>SGDR42M06042</b>	60	42	38	10	M8	1.0
160	42x110	<b>SGDR42M07042</b>	60	42	42	12	M8	1.0
180	48x110	<b>SGDR42M08042</b>	60	42	48	14	M8	1.0
200	55x110	<b>SGDR55M09060</b>	84	60	55	16	M8	2.5

### Pump half-couplings

Half-coupling code	Dimensions [mm]		Weight [kg]
	De	L	
<b>SGDR28***</b>	45	40	0.5
<b>SGDR42***</b>	60	42	1.0
<b>SGDR55***</b>	84	60	2.5

Complete the half-coupling designation with the pump interface code and the length.  
 Example: **SGDR280PD02050** (see page 19).



### Sleeve

Code	Half-coupling code	Dimensions [mm]			Weight [kg]
		De	E	B	
<b>EGR066PA</b>	SGDR28	66	38	16	0.050
<b>EGR090PA</b>	SGDR42	90	52	22	0.150
<b>EGR125PA</b>	SGDR55	125	65	27	0.371



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