

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**



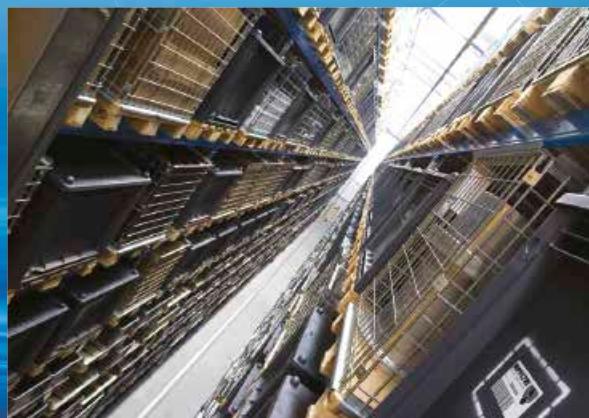
TECHNOLOGY

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	RETURN FILTERS	RETURN / SUCTION FILTERS	SPIN-ON FILTERS	LOW & MEDIUM PRESSURE FILTERS	HIGH PRESSURE FILTERS
Flow rates up to 875 l/min	Flow rates up to 3000 l/min	Flow rates up to 300 l/min	Flow rates up to 365 l/min	Flow rates up to 3000 l/min	Flow rates up to 750 l/min
Mounting: - Tank immersed - In-Line - In tank with shut off valve - In tank with flooded suction	Pressure up to 20 bar	Pressure up to 80 bar	Pressure up to 35 bar	Pressure up to 80 bar	Pressure from 110 bar up to 560 bar
	Mounting: - In-Line - Tank top - In single and duplex designs	Mounting: - In-Line - Tank top	Mounting: - In-Line - Tank top	Mounting: - In-Line - Parallel manifold version - In single and duplex designs	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

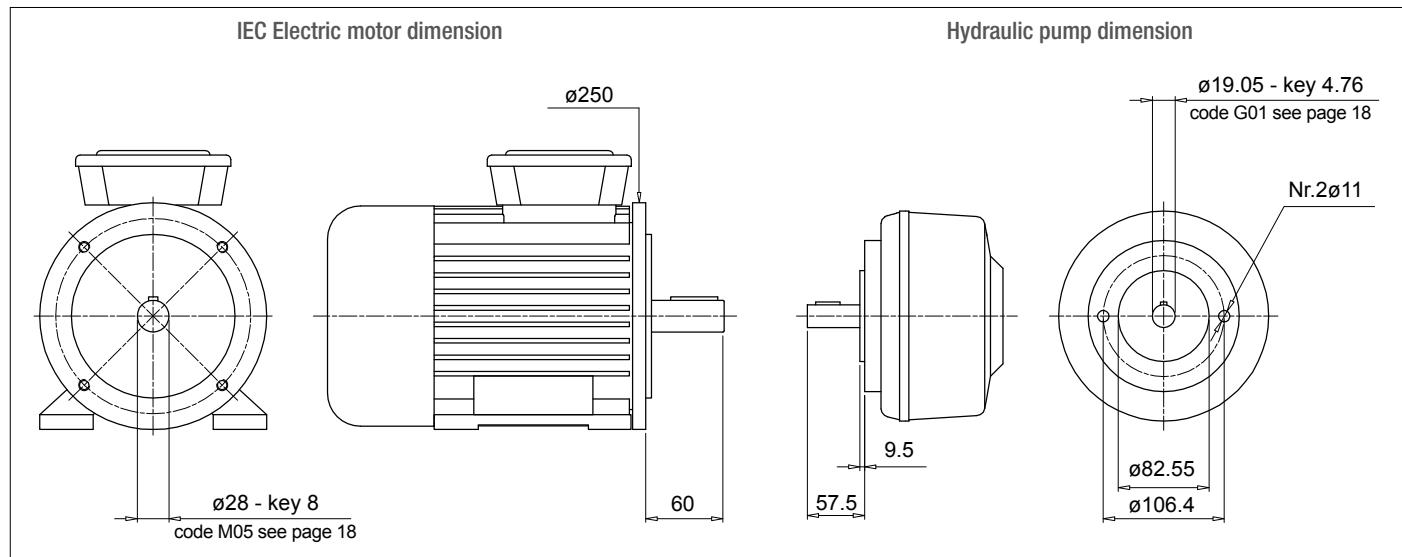
- Electric motor power/motor size
- Manufacturer and pump type

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

- $H = 60 + 18 + 57.5 = 135.5 \text{ mm}$ ($18 = \text{Sp spider}$ - 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 ≥ 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 ≥ 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

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

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

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.mpfiltrli.com

Vane / Piston / Screw pumps

AKA AKMM03Z0066	HYDRAULIC PUMP - Technical Data
Pump	L1: 57.5 d1: 19.05 Ch: 4.76 S: 9.5 PD: 82.55 Int: 106 Nr: 2 F: M10
Electric Motor	ELECTRIC MOTOR - Technical Data
N. Poles: 2P Type: 83-85 Size: 100-112 Kw: 3-4 Hp: 4-5,44	L: 60 d1: 28 Flg.: 250 Ch: 8
Coupling material: <input checked="" type="radio"/> Aluminum <input type="radio"/> Cast Iron <input checked="" type="checkbox"/> Allow alternative material	
Result	Monobloc Bellhousing: Modular Bellhousing: Silenced Bellhousing:
Coupling: M03 - Z0066 Drilling Pump: S060 Pump Shaft: G01 Motor Shaft: M05	Monobloc Bellhousing: Pump half-coupling with grub screw For other solution please contact technical department
CLICK HERE TO PROCEED	Modular Bellhousing: OK Silenced Bellhousing: OK

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"

The screenshot shows the software's main interface. On the left, a sidebar lists categories like 'Bell Housing & Coupling', 'Gear boxes', 'Vane / Piston / Screw pumps', 'Description', and 'MP FILTRI POWER TRANSMISSION'. The central area displays 'HYDRAULIC PUMP - Technical Data' with dimensions L1=12, D1=25, D2=18, H1=140, M=2, and P=M12. Below it is 'ELECTRIC MOTOR - Technical Data' with dimensions L=130, D1=120, D2=100, H=117.5, and G=12. A 'Result' section shows 'Coupling material: Aluminio', 'Driving Pump: Modular Bellhousing', and 'Pump shaft: Stamped Bellhousing'. A red box highlights the 'Bell Housing & Coupling' category in the sidebar. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

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

This screenshot shows the software after selecting 'BELL-HOUSING & COUPLING'. The 'Manufacturer' dropdown is set to 'BOSCH RIDGOTH', 'Pump type' to 'A39/50', and 'Pump model' to 'A39/50DS'. The 'Result' section now includes 'Driving Pump: 3072', 'Hump shaft: D02', and 'Motor shaft:'. A red box highlights the 'Manufacturer' dropdown. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

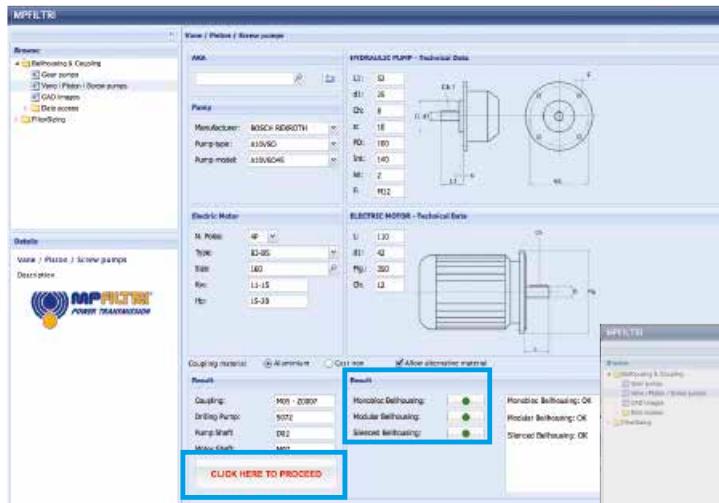
Step 3 Choose nr° of poles of "Electric motors":
select "Electric motors type" and "Electric motors size"

This screenshot shows the software after selecting 'BELL-HOUSING & COUPLING' and 'BOSCH RIDGOTH'. The 'Electric Motor' section shows 'S. Poles: 4P', 'Type: 60-65', 'Size: 180', 'Kw: 11.75', and 'Hp: 15.20'. The 'Result' section includes 'Coupling material: HGS - 2000T', 'Driving Pump: 3072', 'Pump shaft: D02', and 'Motor shaft: M07'. A red box highlights the 'S. Poles' dropdown. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

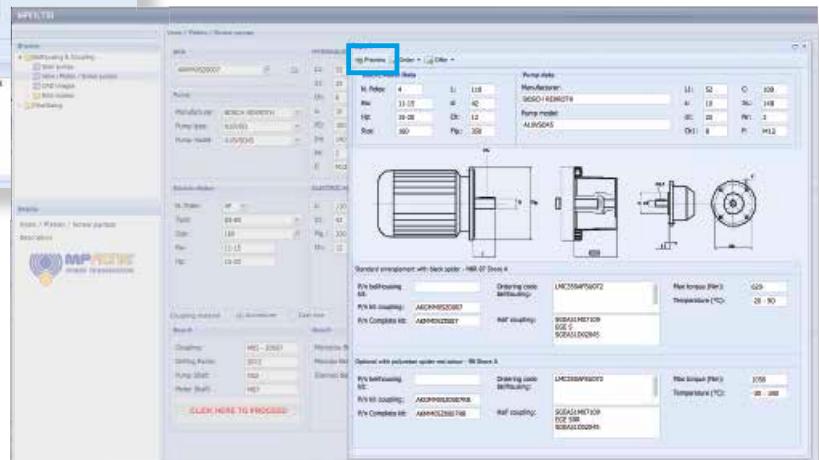
Step 4 Choose Coupling material

This screenshot shows the software after selecting all previous steps. The 'Result' section now includes 'Driving Pump: 3072', 'Pump shaft: D02', and 'Motor shaft: M07'. A red box highlights the 'Coupling material' dropdown. A red button at the bottom right says 'CLICK HERE TO PROCEED'.

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



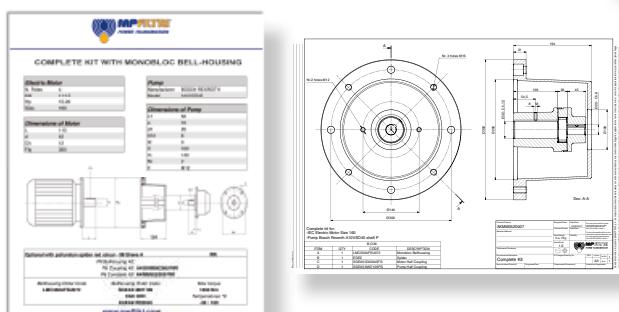
Step 6 Push “**PREVIEW**” to download the reports.



Step 7



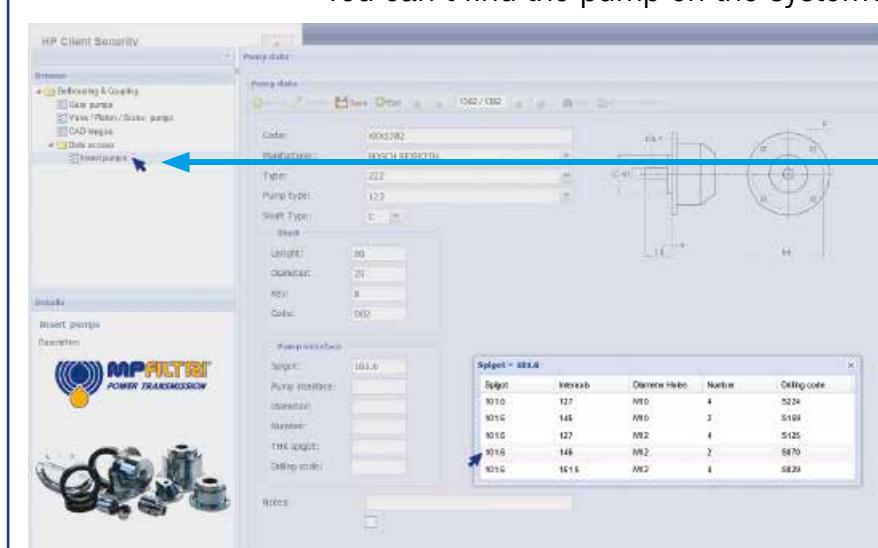
Download PDF
Datasheet and “DXF Drawing” of your selection



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 SGEG available with screw mounted.

Steel half-couplings SGES 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.mpfiltr.com".

The half-couplings SGE* 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.

Couplings



GENERAL INFORMATION	page 16
SGEA - SGEG - SGES - EGE	21
SGDR - EGR	39

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	
SGE * 21	
SGE * 31	
SGE * 40	1.5°
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 Ex

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.mpfilttri.com".

MP Filtri couplings are developed with:

CAD 3D



FEM



Drawings 3D available on website www.mpfilttri.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

Small pumps, uniform load, low operating pressures e.g. rotary action machine tools - 5/8 work cycles per hour	1.3	Example Electric motor, 4 pole - 4 kW hydraulic pump, uniform load, low operating pressure Mt: $9560 \times 4 / 1500 = 25.45 \text{ Nm}$ Me > $25.49 \times 1.3 = 33 \text{ Nm}$
Small pumps, uniform load, high working pressures e.g. lifting equipment - 120-150 work cycles per hour	1.5	Half-coupling SGEA21 meets the above requirement.
Pumps, non-uniform load e.g. lifting equipment - 280-300 work cycles per hour	1.7	

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:

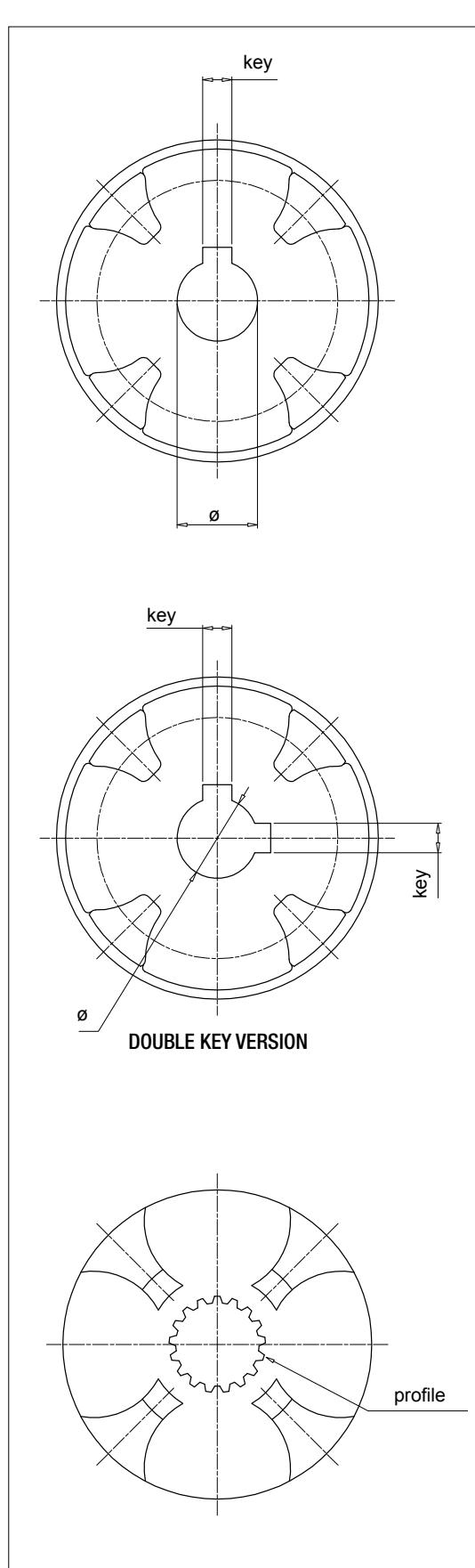
Table 2

Half-coupling type	External diameter [mm]	Nominal torque Me - Nm	Maximum transmissible torque Me - Nm	
SGEA01	43	15	20	
SGEA21	68	160	190	
SGEA31	75	340	380	
SGEA51	109.5	550	620	ALUMINIUM
SGEG01	40	20	30	
SGEG30	80	400	450	
SGEG40	95	550	620	
SGEG60	120	760	850	
SGEG80	160	2200	2500	
SGEG90	200	5500	6100	CAST IRON
SGES40	95	550	620	
SGES60	120	760	850	
SGES80	180	2200	2500	STEEL

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).

GENERAL INFORMATION

PUMP SHAFT CODES



Parallel shaft - Metric Dimensions

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

Parallel shaft - Imperial Dimensions

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

Parallel shaft - Double Key

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

*** = coupling length

SAE Bore - ANS.B.92.1-1970

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

Splined bore as per standard DIN5480

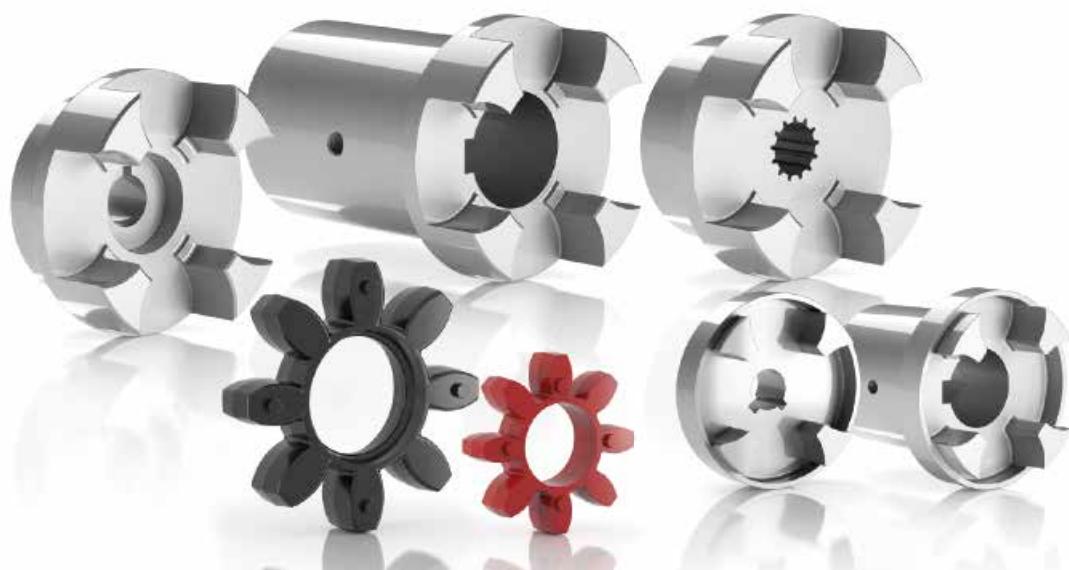
Profile	Nr. of Th	Code
W18 x 1.25 x 13	13	PA01
W20 x 1.25 x 14	14	PA02
W25 x 1.25 x 18	18	PA03
W28 x 1.25 x 21	21	PA04
W32 x 1.25 x 24	24	PA05
W38 x 1.25 x 29	29	PA06
W30 x 2 x 14	14	PA07
W32 x 2 x 14	14	PA08
W35 x 2 x 16	16	PA09
W37 x 2 x 17	17	PA10
W38 x 2 x 18	18	PA11
W40 x 2 x 18	18	PA12
W42 x 2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

Splined bore as per standard DIN5481

Profile	Nr. of Th	Code
8 x 10	28	PC01
10 x 12	30	PC02
12 x 14	31	PC03
15 x 17	32	PC04
17 x 20	33	PC05
21 x 24	34	PC06
26 x 30	35	PC07
30 x 34	36	PC08
60 x 65	41	PC09
A15 x 12	8	PB01
A17 x 14	9	PB02
A18 x 15	10	PB03
A20 x 17	12	PB04
A22 x 19	13	PB05
A25 x 22	14	PB06
A28 x 25	15	PB07
A30 x 27	16	PB08
A32 x 28	17	PB09
A35 x 31	18	PB10
A38 x 34	19	PB11
A40 x 36	20	PB12
A42 x 38	21	PB13
A45 x 41	22	PB14
A48 x 44	23	PB15
A50 x 45	24	PB16
A52 x 47	25	PB17
A55 x 50	26	PB18
A58 x 53	27	PB19
A60 x 55	28	PB20
A62 x 57	29	PB21
A65 x 60	30	PB22
A68 x 62	31	PB23
A70 x 64	32	PB24
A72 x 66	33	PB25
A75 x 69	34	PB26
A78 x 72	35	PB27
A80 x 74	36	PB28
A82 x 76	37	PB29
A85 x 79	38	PB30
A88 x 82	39	PB31
A90 x 84	40	PB32
A92 x 86	41	PB33
A95 x 89	42	PB34
A98 x 92	43	PB35
A100 x 94	44	PB36

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

Temperature

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

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

Note

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

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



IEC Electric Motors size	Aluminium	G25 UNI 5007 Cast Iron - C40 Carbon Steel						Range
		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
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-CO尤LING FOR PARALLEL SHAFT

Pump half-coupling	SGE	A	21	G02	050	2E	FG
SGE							
Series and material							
A Aluminium							
G Cast Iron							
S Steel							
Size	SGEA	SGEG	SGES				
01	01	01	01				
21	30	30	30				
31	40	40	40				
51	60	60	60				
	80	80	80				
	90	90	90				
Pump shaft code							
G02	See page 18						
Length							
050	See pages 26 ÷ 30						
Double key way (available combinations only)							
2E	See page 18 (parallel shaft - double key)						
Grub screw (necessary for SGEA series only)							
FG							

PUMP HALF-CO尤LING FOR SPLINED SHAFT

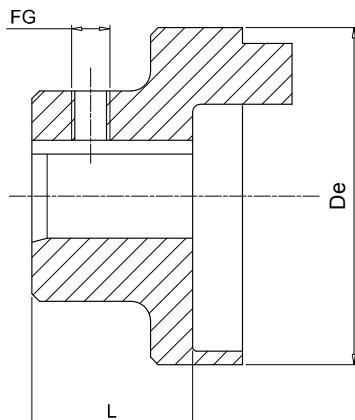
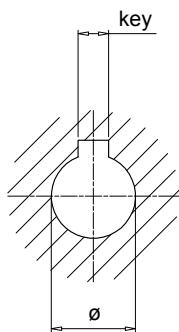
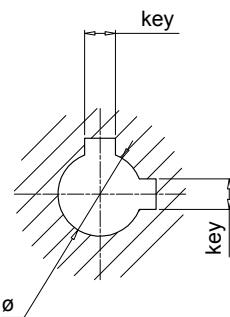
Pump half-coupling	SGE	G	40	PD02	050
SGE					
Series and material					
G Cast Iron					
S Steel					
Size	SGEG	SGES			
01	01	01			
30	30	30			
40	40	40			
60	60	60			
80	80	80			
90	90	90			
Pump shaft code					
PD02	See pages 19				
Length					
050	See pages 28 ÷ 30				

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 dxd [mm] 2-pole 4, 6, 8 pole		Output P [kW]	Torque T [Nm]		Output P [kW]	Torque T [Nm]		Output P [kW]	Torque T [Nm]		Output P [kW]	Torque T [Nm]	
56	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				
63	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				
71	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	
80	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	
90S	24 x 50		1.5	5	21	1.1	7.5	21	0.75	8	21	0.37	5.3	21
90L			2.2	7.4		1.5	10		1.1	12		0.55	7.9	
100L	28 x 60		3	9.8		2.2	15		1.5	15		0.75	11	
			4	13		3	20		2.2	22		1.1	16	
112M	38 x 80		5.5	18	31	5.5	36	31	3	30	31	2.2	30	31
			7.5	25					4	40		3	40	
132S	42 x 110				31	7.5	49		5.5	55				
132M	48 x 110		11	36		11	72	40/51	7.5	75	40/51	4	54	40/51
160M	55 x 110		15	49					11	109		5.5	74	
160L	60 x 140		18.5	60	40/51	15	98	40/51			40/51	7.5	100	40/51
180M	65 x 140		22	71		18.5	121							
180L	75 x 140					22	144		15	148		11	145	
200L	80 x 170		30	97		30	196	60	18.5	181		15	198	
			37	120					22	215				
200S	55 x 110	60 x 140	45	145	60	37	240	60			60	18.5	244	60
225M			45	145		45	292		30	293		22	290	
250M	60 x 140	65 x 140	55	177		55	356		37	361		30	392	
280S	75 x 140		75	241		75	484		45	438		37	483	
			90	289		90	581		55	535		45	587	
315S	80 x 170		110	353		110	707		75	727		55	712	
315M	85 x 170		132	423	80	132	849	80	90	873	80	75	971	80
			160	513		160	1030		110	1070		90	1170	
315L	90 x 170		200	641		200	1290		132	1280		110	1420	
									160	1550		132	1710	
315	95 x 170		250	802		250	1600		200	1930		160	2070	
			315	1010		315	2020		250	2410		200	2580	
355	110 x 210		355	1140		355	2280							
			400	1280		400	2570		315	3040		250	3220	
400	110 x 210		500	1600		500	3210		400	3850		315	4060	
			560	1790	90	560	3580	90	450	4330	90	355	4570	90
	110 x 210		630	2020		630	4030		500	4810		400	5150	
			710	2270		710	4540		560	5390		450	5790	
			800	2560		800	5120		630	6060		500	6420	

SGEA Aluminium

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

Pump half-couplings

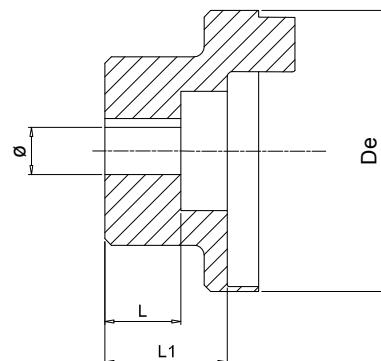
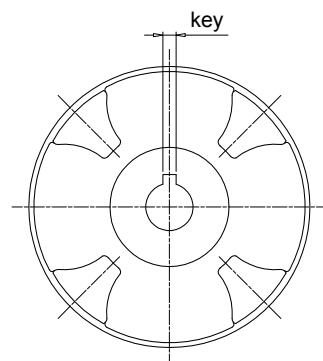
Half-coupling code	Dimensions [mm] Ø min	Ø max	De	L min	L max	Standard lengths [mm]								FG		
SGEA01 *** ***	11	19	44.0	17	50	17	23	30	40	44	48	-	-	-	M5	
SGEA21 *** ***	15	24	70.0	23	50	35	40	42	44	48	50	-	-	-	M6	
SGEA21 *** ***	25	28	70.0	40	60	40	42	44	48	50	55	58	60	-	M6	
SGEA31 *** ***	18	32	85.0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

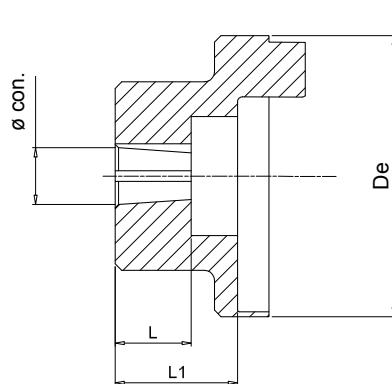
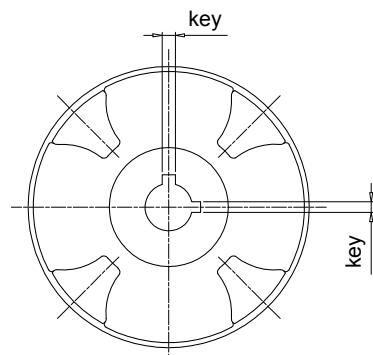
D02 - see page 18

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



Half-coupling for gear pumps - parallel

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



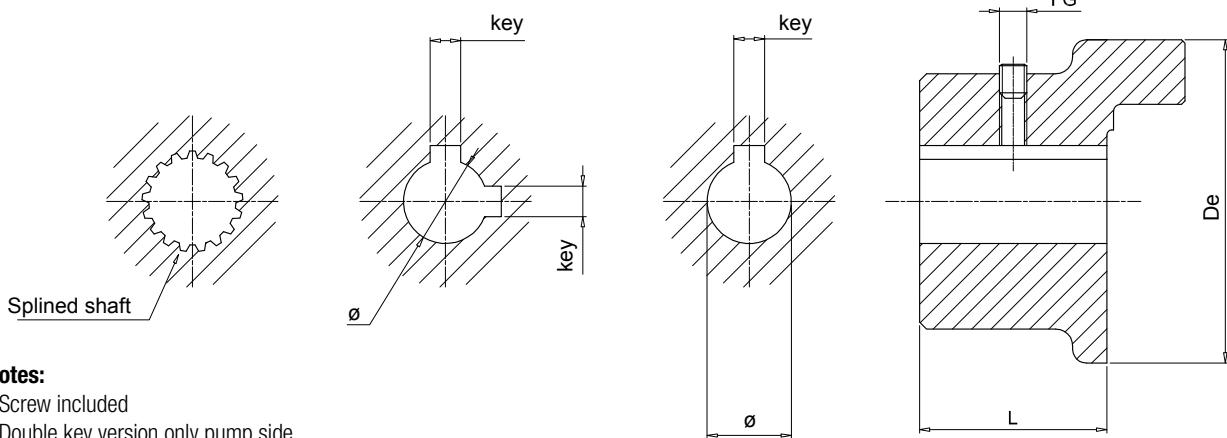
Half-coupling for gear pumps - tapered

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

SGEG Cast Iron

Dimensions

Double key version



Notes:

- Screw included
- Double key version only pump side

Motor half-coupling

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

Pump half-couplings

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

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

Example: **SGEG40PD02040**

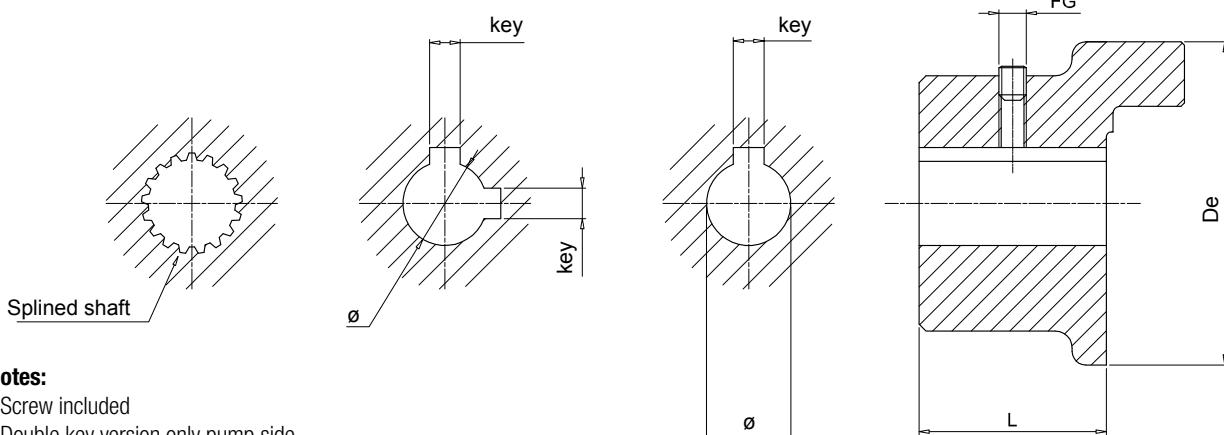
PD02 - see page 19

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.

Double key version

**Notes:**

- Screw included
- Double key version only pump side

Motor half-coupling

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

Pump half-couplings

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

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

Example: **SGES40PD02040**

PD02 - see page 19

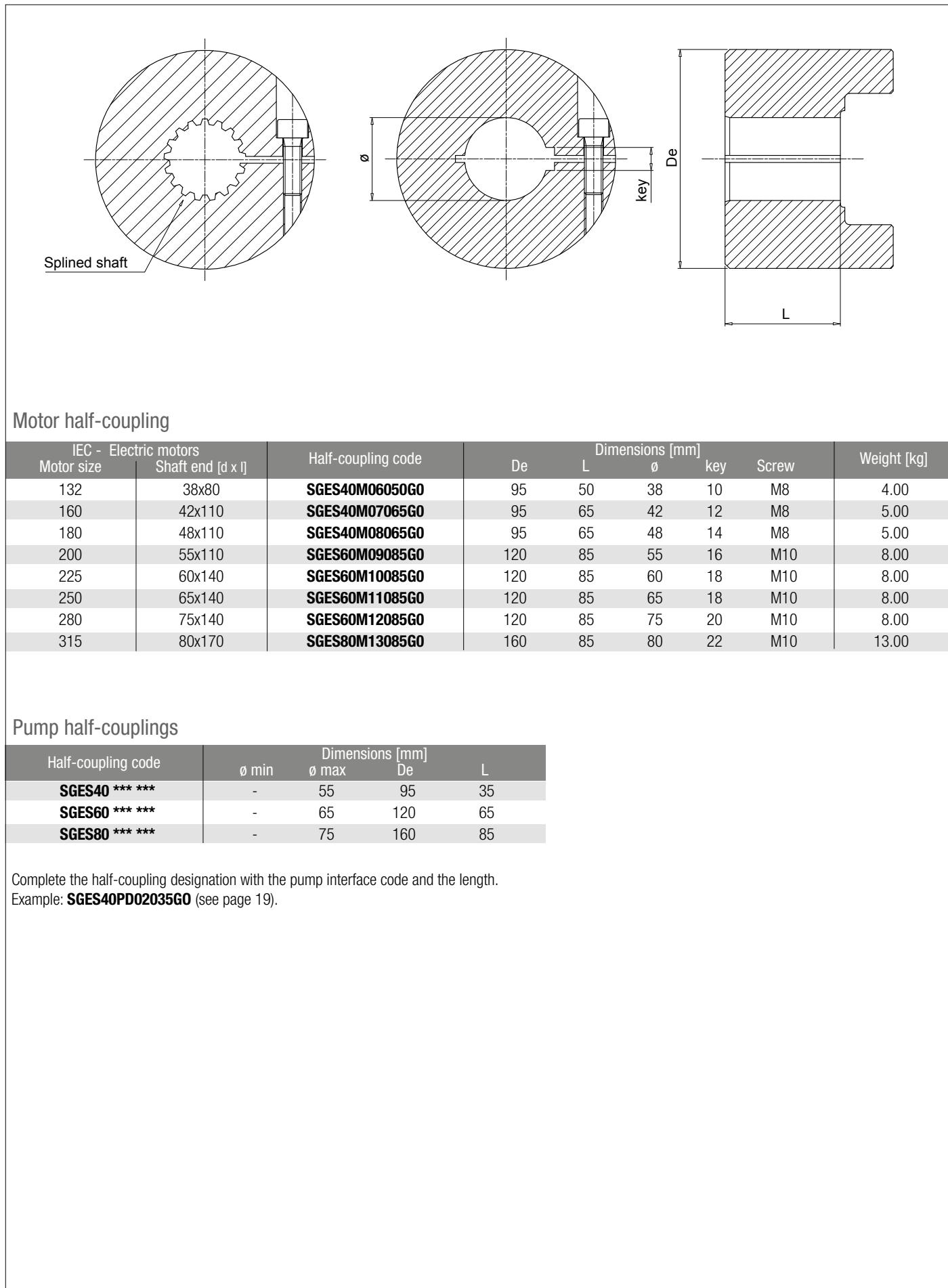
040 - table "pump half-coupling - standard lengths"

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.

SGES*GO Steel C40

Dimensions



Motor half-coupling

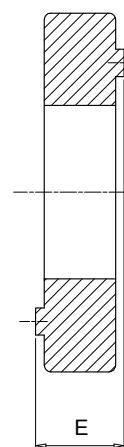
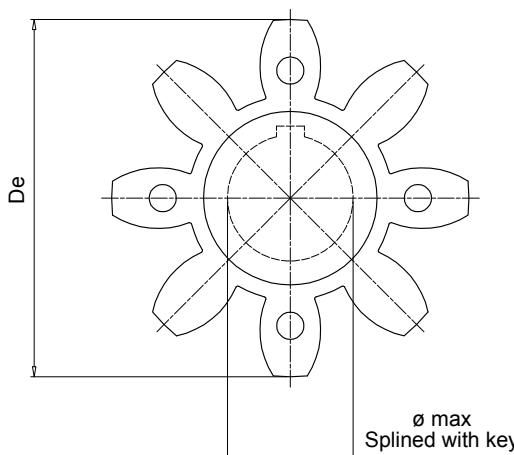
Motor size	IEC - Electric motors Shaft end [d x l]	Half-coupling code	De	L	Dimensions [mm] ø	key	Screw	Weight [kg]
132	38x80	SGES40M06050GO	95	50	38	10	M8	4.00
160	42x110	SGES40M07065GO	95	65	42	12	M8	5.00
180	48x110	SGES40M08065GO	95	65	48	14	M8	5.00
200	55x110	SGES60M09085GO	120	85	55	16	M10	8.00
225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

Pump half-couplings

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

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

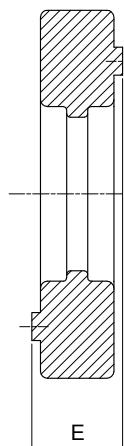
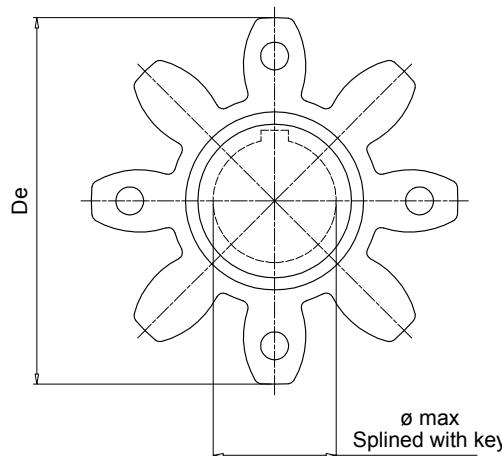
Example: **SGES40PD02035GO** (see page 19).

**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	E	Dimensions [mm]	Nominal torque Nm	Max torque Nm	Weight [kg]
De	Ø max					
EGE0	SGEA01 - SGEG01	15	40	10	20	0.006
EGE2	SGEA21	18	65	95	190	0.02
EGE3	SGEA31 - SGEG30	22	80	190	380	0.04
EGE5	SGEA51	26	105	310	620	0.06
EGE4	SGEG40 - SGES40	24	95	310	620	0.09
EGE6	SGEG60 - SGES60	28	120	430	860	0.13
EGE8	SGEG80 - SGES80	38	160	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	E	Dimensions [mm]	Nominal torque Nm	Max torque Nm	Weight [kg]
De	Ø max					
EGE0RR	SGEA01 - SGEG01	15	40	15	30	0.006
EGE2RR	SGEA21	18	65	115	230	0.02
EGE3RR	SGEA31 - SGEG30	22	80	250	500	0.04
EGE5RR	SGEA51	26	105	400	800	0.06
EGE4RR	SGEG40 - SGES40	24	95	380	760	0.09
EGE6RR	SGEG60 - SGES60	28	120	550	1100	0.13
EGE8RR	SGEG80 - SGES80	38	160	1400	2900	0.36
EGE9RP	SGEG90	48	200	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	12.7	13.45	15.87	15.87	17.46	19.02	19.05	19.05	22.22	22.22	22.22	25.4	25.4	26.94	28.58
		3.18	3.18	3.18	4.76	3.97	4.76	3.17	4.76	6.35	4.76	6.35	4	6.35	4.76	4.76	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	31.75	31.75	34.94	38.1	41.27	41.6	44.45	47.63	50.8	53.94	60.33	60.33	73.03	85.73	92.07
		7.94	6.35	7.94	7.94	9.52	9.52	12	11.11	12.7	12.7	12.7	15.88	12.7	19.05	22.23	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 16/32	14 16/33	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

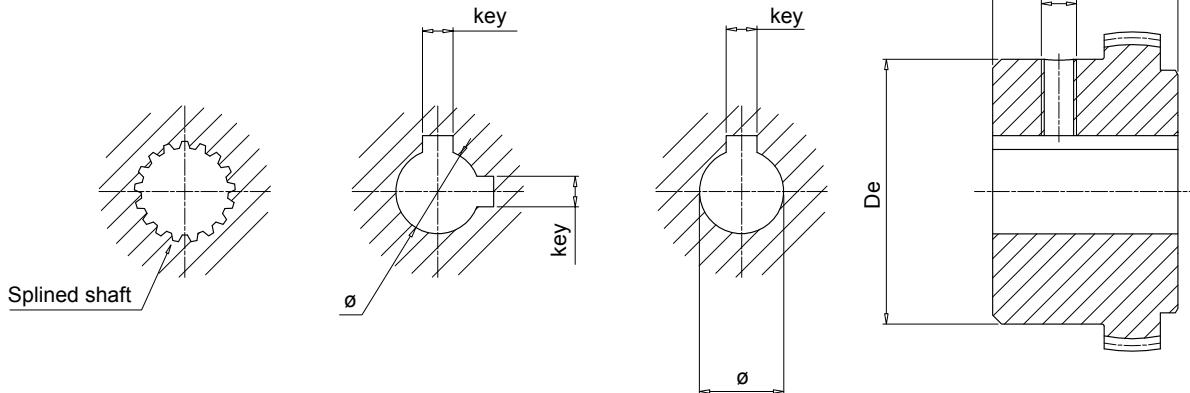
BLANK HALF-CO尤LING			
Pump half-coupling SGDR	Configuration example:	SGDR	28
Size 28		PB	
42			
55			
Without bore PB			

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

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

Dimensions

Double key version



Notes:

- Screw included
- Double key version only pump side

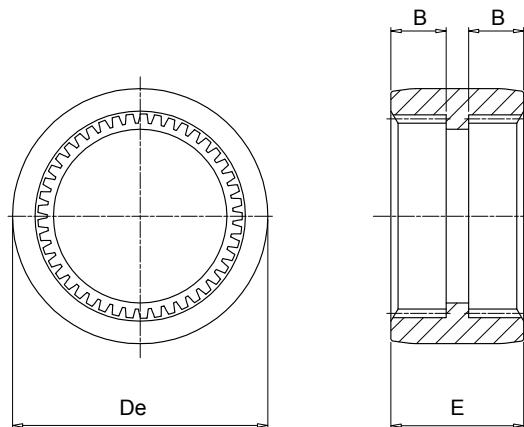
Motor half-coupling

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

Pump half-couplings

Half-coupling code	Dimensions [mm]	Weight [kg]
De	L	
SGDR28***	45	0.5
SGDR42***	60	1.0
SGDR55***	84	2.5

Complete the half-coupling designation with the pump interface code and the length.
Example: **SGDR28OPD02050** (see page 19).



Sleeve

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



WORLDWIDE NETWORK

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