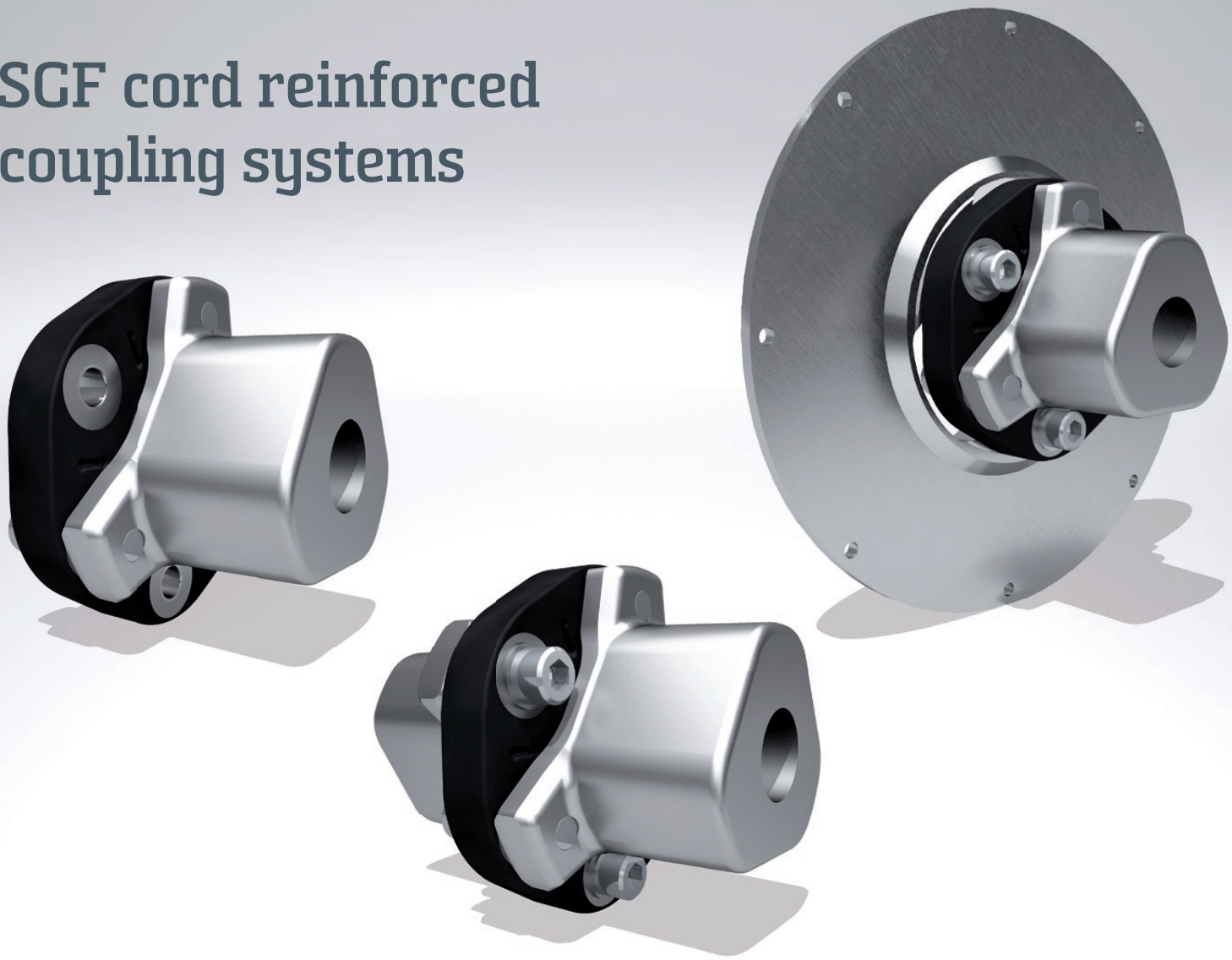
We make drive systems comfortable and reliable.

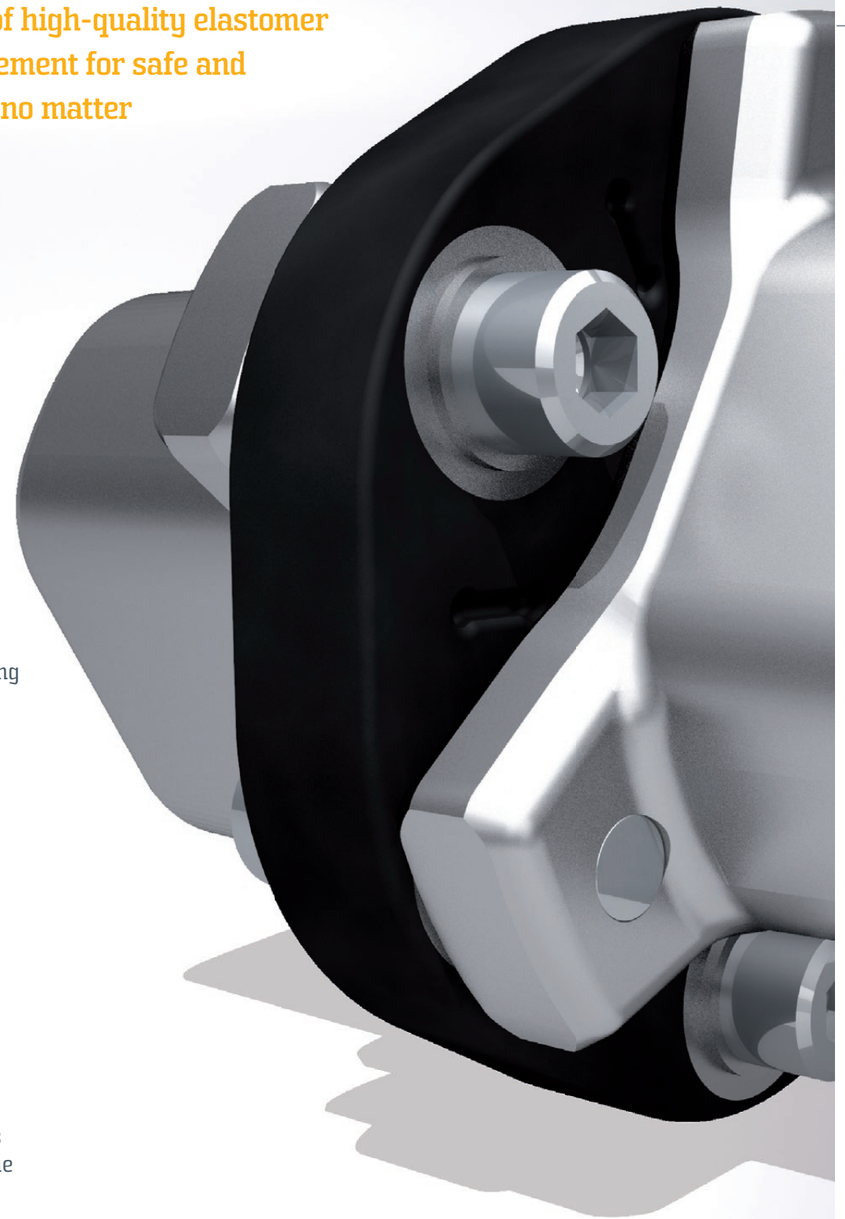
# SGF cord reinforced coupling systems



## SGFlex-3F SERIES with Tenpu® fiber technology
## FLEX COUPLING ASSEMBLY

## The new SGFlex-3F Series coupling system incorporates industry proven SGFlex couplings with solid steel flanges or flywheel combinations to provide an integrated solution to our customers.

## SGFlex couplings are highly durable, reinforced flexible couplings made of high-quality elastomer and strong cord reinforcement for safe and effective torque transfer no matter what the application.



SGFlex couplings compensate for axial, radial and angular misalignment and are able to operate in extreme application conditions. They provide effective dampening for torque peaks and shock loads.

Some common applications include Pump systems, Hydraulic drives and Conveyor drivelines.

The high power density ratio and outstanding durability and performance of the SGFlex coupling makes it the perfect coupling system for all kinds of special machinery such as wood cutting machines, shredder applications and rock crushers to name a few.

The forged steel flanges are made of high quality steel and its versatile design can support all common as well as custom sizes of shaft/hub connection requirements.
The flange hubs can be machined to specific keyway/slot or multi spline connection requirement depending on individual requirements. Very large shaft diameters can be connected due to the unique 3-edged design of the flanges.



The flanges are protected against corrosion by electroplated coating which ensures outstanding storing characteristics and protects the steel parts against aggressive media and environmental impacts.
Applications in corn harvesting machines, inside biogas fermenters and in the salty area of the marine industry prove the excellent resistance against unfriendly environment.

SGFlex flanges and couplings are built together by a simple screw connection, using high quality bolts (grade 10.9) and high quality washers (300 HV hardness).
The screw connection is easy to install, as the bolts are bolted directly into the flange material. Due to this, the SGFlex coupling can be replaced without disassembling the metal parts, just by loosen the bolts and replacing the flexible disc element in radial direction.

In order to choose the right coupling size for your application, calculate the nominal torque $T_N$ of your system.

$$T_N = \frac{9550 \times P\ [kW]}{n\ [rpm]}$$

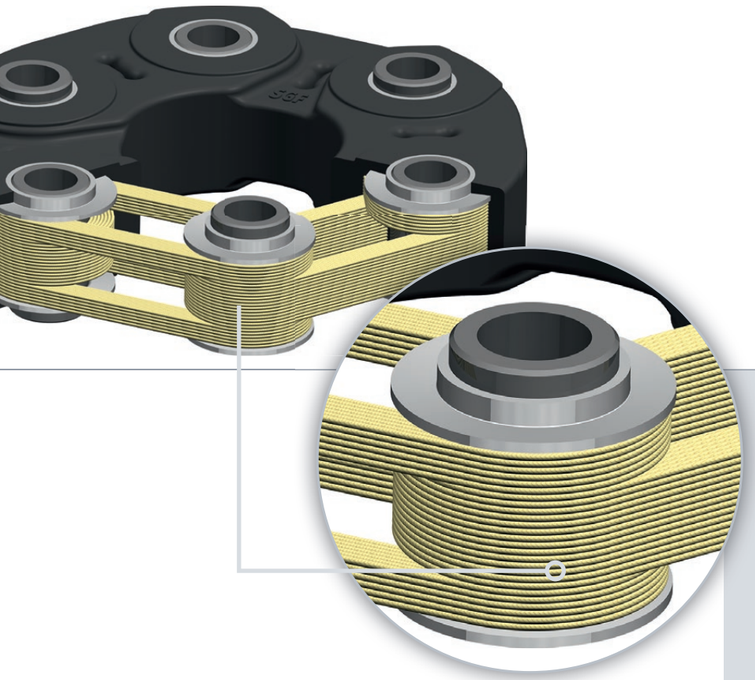
$$T_{KN} \geqq T_N$$

| | |
|---|---|
| $T_N$ | Nominal torque of the system in Nm |
| $T_{KN}$ | Max permissible nominal torque of flexible coupling |
| P | Power in kW |
| n | Speed in rpm |

Further take following points into account:

- Due to the constructive composition of SGF flexible couplings, normally it is not necessary to correct $T_N$ for machine types or thermal influences.
- In addition to considering static loads when selecting a flexible coupling, we always recommend a calculation of the vibratory behaviour of the drive train to avoid undesired resonance phenomena.
- Under unfavourable conditions, running the drive train in resonance mode can lead to destruction of individual components within minutes and should be avoided on principle.
- The data needed for the calculation is given in the technical datasheet according to the SGFlex coupling and explained in the technical data explanation SGF-TL-001 (available upon request).
- At high load frequencies, take heed that the maximum permissible power loss of the individual flexible coupling is not exceeded.
- If an SGF coupling is used as a replacement solution in an existing system, bearings loads may increase due to altered rigidities.

# THE SGF TENSION-FORCE-PRINCIPLE



**Torque is transmitted almost exclusively via the vulcanised-in cord inlays (Tenpu® fiber technology) by the unique SGF tension-force-principle.**

The cord inlays serve to damp torque peaks and to absorb start-up impacts. The rubber takes on a supporting and protective function for the cord packets and serves to isolate noises due to the interruption of the structure-borne noise path.

## Properties

- Compensation of radial, axial and angular misalignment
- Damping of torque peaks in the drivetrain
- Electrically insulating

## Benefits

- High power density due to unique power transmission via Tenpu® technology
- Resistant to shock loads

## Common Applications

- For connecting combustion engines and generators, including any related drive equipment in power plants and power stations or connecting combustion engines and generators in combined heating and power plants and power stations
- As a flexible coupling in drivetrains such as vibrating screens and test benches
- Movement compensation and vibration absorption between engines and hydraulic pumps in forklifts, cement trucks or other similar equipment
- As a flexible connecting element in mixers, pumps and agricultural machinery
- For connecting the transmission and drive shaft in road, rail, mining, military or marine (ship) applications



**SGF flexible couplings are torsional flexible, non-shiftable couplings. They are used to compensate radial, axial or angular displacements of rotating components (e.g. shafts), to dampen vibrations in the drive train and to minimise torque peaks.**

**The flex coupling assembly SGFlex-3F Series is an assembly consisting of a SGFlex flexible coupling, a drive flange and a driven/output flange.**

The SGFlex-3F Series offers 3 types of couplings each 6 standardized sizes with a torque range from 200Nm – 3.200Nm.

e.g. **SGFlex-3F D-096**

↑ Type ↑ Size

All forged 3-arm flanges come with a pilot hole to adjust the bore to the specific needs. The max. possible bore diameter for key connection acc. to DIN6885-1 or ASME B17.1 is given in the tables on the next pages. Bore processing and special designs are available upon request.
SGFlex-3F coupling and flange kits will be delivered un-assembled but shipped with the required attaching hardware (bolts and washers) in the kit.

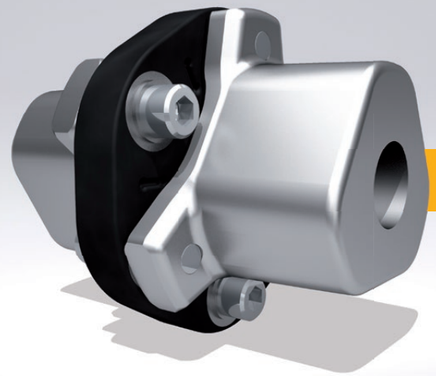
For the assembly of SGFlex-3F couplings refer to our "SGF-TL-002" instruction document.
For coupling size 220 please pay attention to the rotational direction when installing.



# SGFlex-3F SERIES

*This coupling is designed to connect two devices with shafts, for example an electric motor with a hydraulic pump. The flanges can be machined to fit on almost any shaft design. The coupling is easy to install, either fully assembled or separately in the mounting space. For maintenance, the flexible coupling can be replaced without moving neither the devices or the flanges.*

*The flex coupling assembly SGFlex-3FD provides the installation versatility and operational reliability and is the complete solution for your application.*



## SGFlex-3FD

*for shaft – shaft connection*

*This coupling is designed to connect an existing structure with a device with shaft for example a pulley with an electric generator. The existing structure has to be adjusted to fit to the connection of the flexible coupling, however it allows the reduction of parts and subsequent costs.*

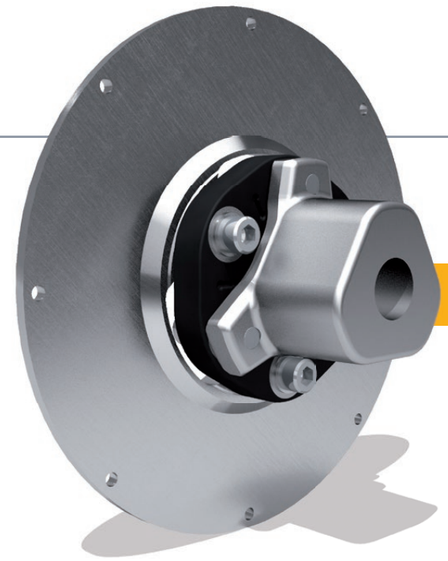
*The flex coupling assembly SGFlex-3FS is a smart solution for applications with a suitable existing structure combined with the advantages of the SGFlex-3FD.*

## SGFlex-3FS

*for shaft – one side*

*This coupling is designed to connect an engine flywheel with a device with shaft, for example a gear box or an electric generator. The flanges for the flywheel connection are standardized acc. to SAE 620J. The flanges for the shaft connection can be machined to fit to the specific needs.*

*The flex coupling assembly SGFlex-3FF brings together the advantage of a finished flange for the flywheel connection and the flexibility to assemble it on any kind of shaft.*



## SGFlex-3FF

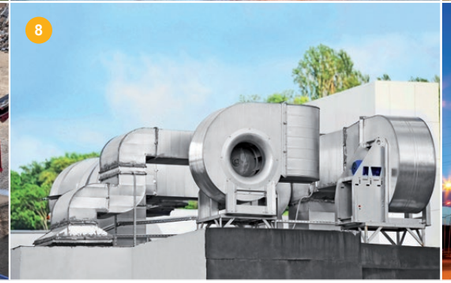
*for shaft – flywheel connection*

# APPLICATIONS WITH SGFlex-3F SERIES








1 **Railway Vehicles:**
fully or partly suspended drive-trains, hydraulic systems, auxiliary power generation

2 **Machinery and Equipment Technology:**
conveyor belts, pumps, compressors, augers, mixers, fans, blowers, test-benches

3 **Agriculture Technology:**
harvesters, corn and grain headers, PTOs, disc mowers, cable winches

4 **Wind Power Systems:**
drive trains, hydraulic systems

5 **Marine Technology:**
propulsion, auxiliary power generation

6 **Construction Machinery:**
excavators, dumpers, concrete pumps, forklifts

7 **Mining Technology:**
vibrating screens, hydraulic systems, conveyor belts

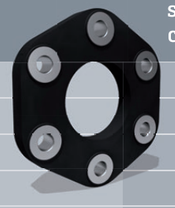
8 **Heat Transfer Systems:**
fans, blowers

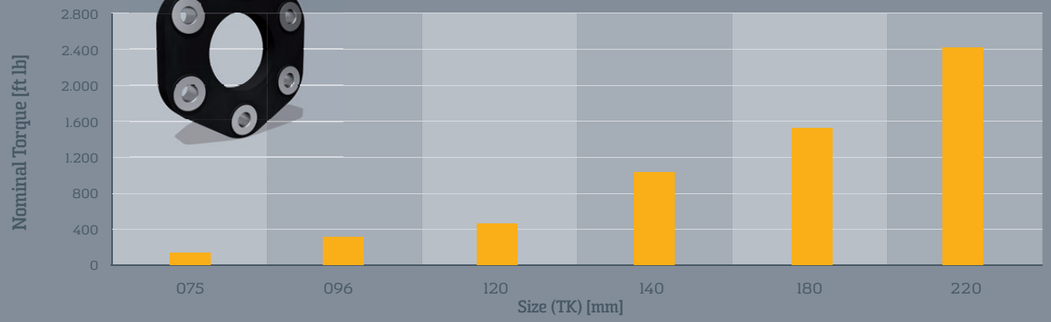
9 **Power Plant Technology:**
Gen-Sets, emergency power generators, CHPs (combined heat and power units)



## NOMINAL TORQUE OF FLEXIBLE COUPLINGS

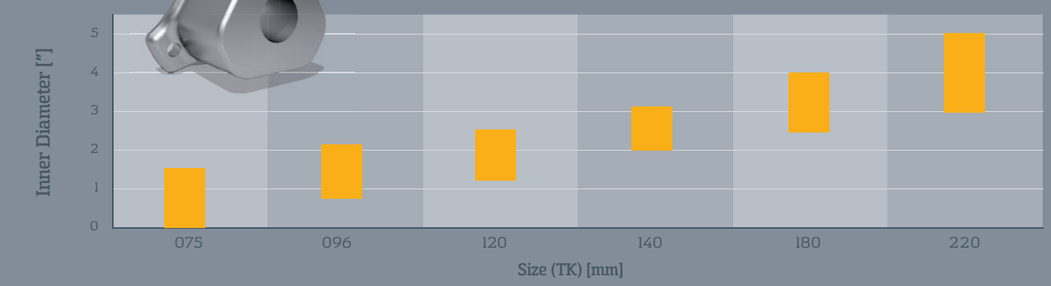
The flexible coupling specifies the capability of the flex coupling assembly series SGFlex-3F. The nominal torque helps to choose the size of the flex coupling assembly.





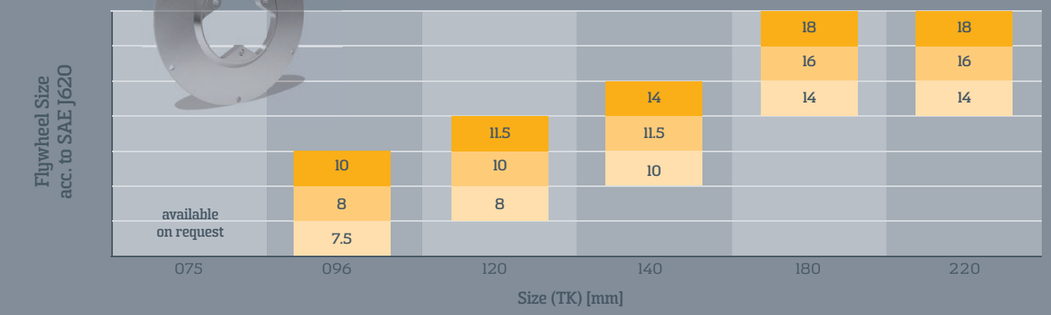

## POSSIBLE INNER DIAMETER OF FLANGES

SGFlex-3F Series flanges come with pilot hole and can be machined to fit to the specific needs. This graph gives you an overview of the possible inner diameter for key connection to help selecting the right size.




## FLYWHEEL SIZE FOR SGFlex-3FF

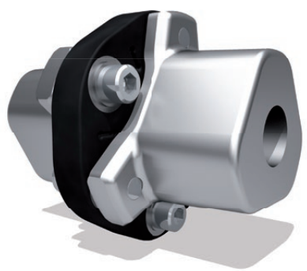
For each coupling size of SGFlex-3FF, there are 3 flanges available to connect to standardized flywheels acc. to SAE J620. Also this flanges are protected against corrosion by electroplated coating. Other flange sizes are availabel upon request.

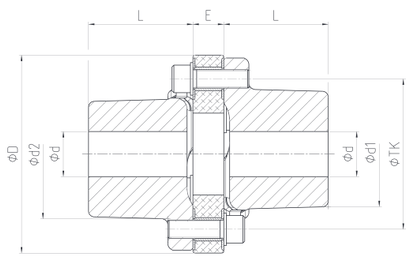


# TECHNICAL DATA SGFlex-3F SERIES

## SGFlex-3FD

Designed to connect
two shafts



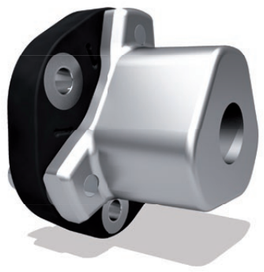


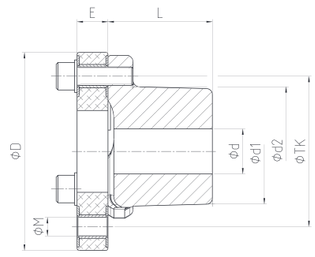

| Size (TK) | Torque | | D | E | L | d | | d1 | d2 | Weight | Used flexible coupling | Bolt | Tightening Torque | Order number | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $T_{KN}$* | $T_{KMax1}$ | | | | Pilot | Max** | | | | | | | | |
| [mm] | [Nm] *[ft lb]* | [Nm] *[ft lb]* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [kg] | | | [Nm] *[ft lb]* | Description | Part number |
| 075 | 210 *155* | 420 *310* | 101 *3.976* | 24 *0.945* | 60 *2.362* | - | 42 *1 ⅝* | 50 *1.969* | 66 *2.598* | 3.1 | SGFlex-075.02 | M10x40 | 60 *44* | SGFlex-3FD-075 | GK-10510 |
| 096 | 420 *309* | 840 *619* | 132 *5.197* | 30 *1.181* | 71 *2.795* | 19 *0.748* | 60 *2 5/16* | 70 *2.756* | 97 *3.819* | 6.9 | SGFlex-096.02 | M12x50 | 130 *96* | SGFlex-3FD-096 | GK-10317 |
| 120 | 740 *545* | 1480 *1090* | 162 *6.378* | 30 *1.181* | 90 *3.543* | 29 *1.142* | 65 *2 ½* | 82 *3.228* | 109 *4.291* | 11.7 | SGFlex-120.05 | M16x55 | 165 *122* | SGFlex-3FD-120 | GK-10319 |
| 140 | 1400 *1032* | 2800 *2064* | 195 *7.677* | 33 *1.299* | 105 *4.134* | 44 *1.732* | 80 *3 ⅛* | 97 3.819 | 129 *5.079* | 18.0 | SGFlex-140.04 | M16x55 | 165 *122* | SGFlex-3FD-140 | GK-10322 |
| 180 | 2040 *1504* | 4080 *3008* | 237 *9.331* | 37 *1.457* | 125 *4.921* | 54 *2.126* | 102 *4* | 126 *4.961* | 158 *6.220* | 33.7 | SGFlex-180.02 | M22x70 | 290 *214* | SGFlex-3FD-180 | GK-10324 |
| 220*** | 3240 / 1730 *2389 / 1275* | 6480 / 3460 *4778 / 2550* | 281 *11.063* | 37 *1.457* | 155 *6.102* | 64 *2.520* | 127 *5* | 150 *5.906* | 193 *7.598* | 57.9 | SGFlex-220.02 | M24x70 | 335 *247* | SGFlex-3FD-220 | GK-10326 |

* nominal torque, for further information on technical data see SGF-TL-001, ** maximal diameter for key way connection, *** pay attention to rotational direction acc. to SGF-TL-002
Only the metric dimensions shall be binding

## SGFlex-3FS

Designed to connect
a shaft with an existing
structure






| Size (TK) | Torque | | D | E | L | d | | d1 | d2 | M | Weight | Used flexible coupling | Bolt | Tightening Torque | Order number | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $T_{KN}$* | $T_{KMax1}$ | | | | Pilot | Max** | | | | | | | | | |
| [mm] | [Nm] *[ft lb]* | [Nm] *[ft lb]* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [kg] | | | [Nm] *[ft lb]* | Description | Part number |
| 075 | 210 *155* | 420 *310* | 101 *3.976* | 24 *0.945* | 60 *2.362* | - | 42 *1 ⅝* | 50 *1.969* | 66 *2.598* | 10.15 | 1.9 | SGFlex-075.02 | M10x40 | 60 *44* | SGFlex-3FS-075 | GK-10511 |
| 096 | 420 *309* | 840 *619* | 132 *5.197* | 30 *1.181* | 71 *2.795* | 19 *0.748* | 60 *2 5/16* | 70 *2.756* | 97 *3.819* | 12.15 *0.478* | 3.9 | SGFlex-096.02 | M12x50 | 130 *96* | SGFlex-3FS-096 | GK-10318 |
| 120 | 740 *545* | 1480 *1090* | 162 *6.378* | 30 *1.181* | 90 *3.543* | 29 *1.142* | 65 *2 ½* | 82 *3.228* | 109 *4.291* | 16.15 *0.636* | 6.7 | SGFlex-120.05 | M16x55 | 165 *122* | SGFlex-3FS-120 | GK-10320 |
| 140 | 1400 *1032* | 2800 *2064* | 195 *7.677* | 33 *1.299* | 105 *4.134* | 44 *1.732* | 80 *3 ⅛* | 97 3.819 | 129 *5.079* | 16.15 *0.636* | 10.2 | SGFlex-140.04 | M16x55 | 165 *122* | SGFlex-3FS-140 | GK-10323 |
| 180 | 2040 *1504* | 4080 *3008* | 237 *9.331* | 37 *1.457* | 125 *4.921* | 54 *2.126* | 102 *4* | 126 *4.961* | 158 *6.220* | 22.15 *0.872* | 19.0 | SGFlex-180.02 | M22x70 | 290 *214* | SGFlex-3FS-180 | GK-10325 |
| 220*** | 3240 / 1730 *2389 / 1275* | 6480 / 3460 *4778 / 2550* | 281 *11.063* | 37 *1.457* | 155 *6.102* | 64 *2.520* | 127 *5* | 150 *5.906* | 193 *7.598* | 24.15 *0.951* | 31.6 | SGFlex-220.02 | M24x70 | 335 *247* | SGFlex-3FS-220 | GK-10327 |

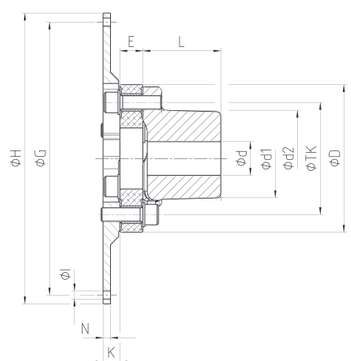
* nominal torque, for further information on technical data see SGF-TL-001, ** maximal diameter for key way connection, *** pay attention to rotational direction acc. to SGF-TL-002
Only the metric dimensions shall be binding



TECHNICAL DATA SGFlex-3F SERIES

## SGFlex-3FF

Designed to connect
a flywheel with a shaft




| Size (TK) | Torque | | D | E | L | K | d | | d1 | d2 | Weight | Used flexible coupling | Bolt | Tightening Torque | Flywheel | Order number | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $T_{KN}$* | $T_{KMax1}$ | | | | | Pilot | Max** | | | | | | | | | |
| [mm] | [Nm] *[ft lb]* | [Nm] *[ft lb]* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [mm] *[']* | [kg] | | | [Nm] *[ft lb]* | Size | Description | Part number |
| 075 | 210 *155* | 420 *310* | available on request | | | | | | | | | | | | | SGFlex-3FF-075 | |
| 096 | 420 *390* | 840 *619* | 132 *5.197* | 30 *1.181* | 71 *2.795* | 15 *0.591* | 19 *0.748* | 60 *2 5/16* | 70 *2.756* | 97 *3.819* | 6.4 | SGFlex-096.02 | M12x50 | 130 *96* | SAE 7.5 | SGFlex-3FF-096 | GK-10328 |
| | | | | | | | | | | | 6.9 | | | | SAE 8 | | GK-10330 |
| | | | | | | | | | | | 8.4 | | | | SAE 10 | | GK-10329 |
| 120 | 740 *545* | 1480 *1090* | 162 *6.378* | 30 *1.181* | 90 *3.543* | 20 *0.787* | 29 *1.142* | 65 *2 ½* | 82 *3.228* | 109 *4.291* | 10.0 | SGFlex-120.05 | M16x55 | 165 *122* | SAE 8 | SGFlex-3FF-120 | GK-10331 |
| | | | | | | | | | | | 11.5 | | | | SAE 10 | | GK-10332 |
| | | | | | | | | | | | 14.9 | | | | SAE 11.5 | | GK-10333 |
| 140 | 1400 *1032* | 2800 *2064* | 195 *7.677* | 33 *1.299* | 105 *4.134* | 20 *0.787* | 44 *1.732* | 80 *3 ⅛* | 97 *3.819* | 129 *5.079* | 14.9 | SGFlex-140.04 | M16x55 | 165 *122* | SAE 10 | SGFlex-3FF-140 | GK-10334 |
| | | | | | | | | | | | 17.8 | | | | SAE 11.5 | | GK-10335 |
| | | | | | | | | | | | 24.8 | | | | SAE 14 | | GK-10336 |
| 180 | 2040 *1504* | 4080 *3008* | 237 *9.331* | 37 *1.457* | 125 *4.921* | 27 *1.063* | 54 *2.126* | 102 *4* | 126 *4.961* | 158 *6.220* | 33.5 | SGFlex-180.02 | M22x70 | 290 *214* | SAE 14 | SGFlex-3FF-180 | GK-10337 |
| | | | | | | | | | | | 37.2 | | | | SAE 16 | | GK-10338 |
| | | | | | | | | | | | 41.5 | | | | SAE 18 | | GK-10339 |
| 220*** | 3240 / 1730 *2389 / 1275* | 6480 / 3460 *4778 / 2550* | 281 *11.063* | 37 *1.457* | 155 *6.102* | 29 *1.142* | 64 *2.520* | 127 *5* | 150 *5.906* | 193 *7.598* | 45.6 | SGFlex-220.02 | M24x70 | 335 *247* | SAE 14 | SGFlex-3FF-220 | GK-10340 |
| | | | | | | | | | | | 49.2 | | | | SAE 16 | | GK-10341 |
| | | | | | | | | | | | 53.5 | | | | SAE 18 | | GK-10342 |

* nominal torque, for further information on technical data see SGF-TL-001, ** maximum diameter for key connection, ***pay attention to rotational direction acc. to SGF-TL-002
Only the metric dimensions shall be binding

**Bolts for flywheel connection are not included!**

### Flywheel connection acc. to SAE J620

| Size of Flywheel | H | | G | | I | | N | | Number of holes |
|---|---|---|---|---|---|---|---|---|---|
| | [mm] | *[']* | [mm] | *[']* | [mm] | *[']* | [mm] | *[']* | |
| SAE 7.5 | 241.3 f8 | *9 ½ f8* | 222.25 | *8 ¾* | 9 | *0.354* | 8 | *0.315* | 8 |
| SAE 8 | 263.52 f8 | *10 ⅜ f8* | 244.48 | *9 ⅝* | 11 | *0.433* | 8 | *0.315* | 6 |
| SAE 10 | 314.32 f8 | *12 ⅜ f8* | 295.28 | *11 ⅝* | 11 | *0.433* | 8 | *0.315* | 8 |
| SAE 11.5 | 352.42 f8 | *13 ⅞ f8* | 333.38 | *13 ⅛* | 11 | *0.433* | 12 | *0.472* | 8 |
| SAE 14 | 466.72 f8 | *18 ⅜ f8* | 438.15 | *17 ¼* | 13 | *0.512* | 12 | *0.472* | 8 |
| SAE 16 | 517.52 f8 | *20 ⅜ f8* | 488.95 | *19 ¼* | 13 | *0.512* | 12 | *0.472* | 8 |
| SAE 18 | 571.5 f8 | *22 ½ f8* | 542.92 | *21 ⅜* | 18 | *0.709* | 12 | *0.472* | 6 |

# TECHNICAL DATA FLEXIBLE COUPLINGS

## Performance

| Size (TK) | flexible coupling | part number | $T_{KN}$ | | $T_{KW}$ | | $T_{KMax1}$ | | $T_{KMax2}$ | | Max. Speed $n_{max}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [mm] | | | [Nm] | *[ft lb]* | [Nm] | *[ft lb]* | [Nm] | *[ft lb]* | [Nm] | *[ft lb]* | [rpm] |
| 075 | SGFlex-075.02 | GA000-024 | 210 | *155* | 105 | *77* | 420 | *310* | 1050 | *774* | 7200 |
| 096 | SGFlex-096.02 | GA000-029 | 420 | *309* | 210 | *154* | 840 | *619* | 2100 | *1548* | 6700 |
| 120 | SGFlex-120.05 | GA000-015 | 740 | *545* | 370 | *272* | 1480 | *1091* | 3700 | *2728* | 5800 |
| 140 | SGFlex-140.04 | GA000-019-Z1 | 1400 | *1032* | 560 | *413* | 2800 | *2065* | 7000 | *5162* | 5100 |
| 180 | SGFlex-180.02 | GA000-027 | 2040 | *1504* | 1020 | *752* | 4080 | *3009* | 10200 | *7523* | 4200 |
| 220 | SGFlex-220.02* | GA000-003 | 3240 / 1730 | *2389 / 1275* | 1620 | *1194* | 6480 / 3460 | *4779 / 2551* | 16200 / 8600 | *11948 / 6343* | 3500 |

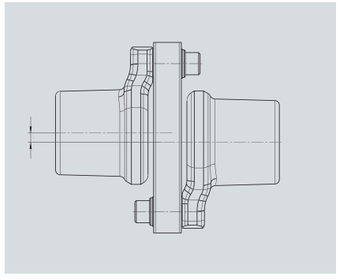
For explanation of technical data see SGF-TL-001
Only the metric dimensions shall be binding

*pay attention to rotational direction acc. to SGF-TL-002

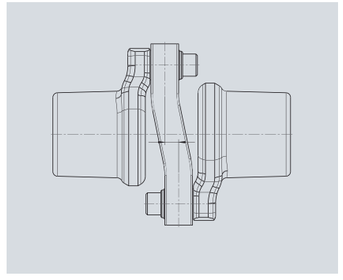
For further information a technical data sheet for each flexible coupling is available upon request.

## Displacements

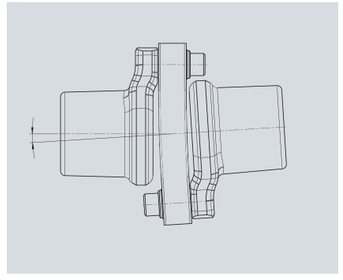
Displacements between the drive and output shaft can be compensated by elastic couplings, as described in the following. The specified maximum values apply, however, only to the specific aspect as rated for endurance strength. If different axial displacements occur simultaneously up to the maximum value, reduced durability is to be expected.



**Max. radial displacement $\Delta K_r$**



**Max. axial displacement $\Delta K_a$**



**Max. angular displacement $\Delta K_w$**

| Size (TK) | flexible coupling | $\Delta K_r$ | | $\Delta K_a$ | | $\Delta K_w$ |
|---|---|---|---|---|---|---|
| [mm] | | [mm] | *[°]* | [mm] | *[°]* | [°] |
| 075 | SGFlex-075.02 | 0.3 | *0.012* | 0.6 | *0.024* | 1 |
| 096 | SGFlex-096.02 | 0.7 | *0.028* | 0.8 | *0.032* | 1 |
| 120 | SGFlex-120.05 | 0.7 | *0.028* | 1.0 | *0.039* | 1 |
| 140 | SGFlex-140.04 | 0.6 | *0.024* | 1.2 | *0.047* | 1 |
| 180 | SGFlex-180.02 | 1.0 | *0.039* | 1.5 | *0.059* | 1 |
| 220 | SGFlex-220.02* | 1.4 | *0.055* | 1.9 | *0.075* | 1 |

Only the metric dimensions shall be binding

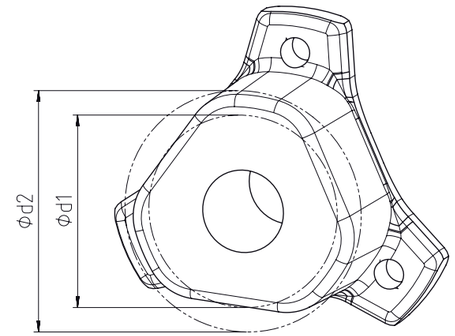
*pay attention to rotational direction acc. to SGF-TL-002



# SGF FORGED STEEL FLANGES

**Ød1**
» maximum diameter (e.g. for calculation of the 3-edge part of the flange inner clamping sets of the max diameter for shrink discs)

**Ød2**
» maximum rotational diameter of the 3-edge part of the flange




## Examples of machined flanges



Key connection for bigger shafts thru unique 3-edge design

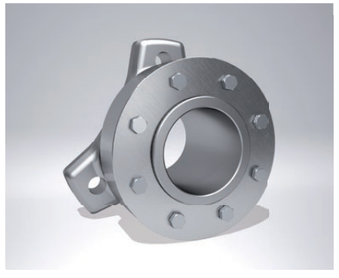


Key connection with threads for fixing bolts



Frictional connection thru a clamping set

Frictional connection thru a taper bore



Frictional connection thru shrink disc

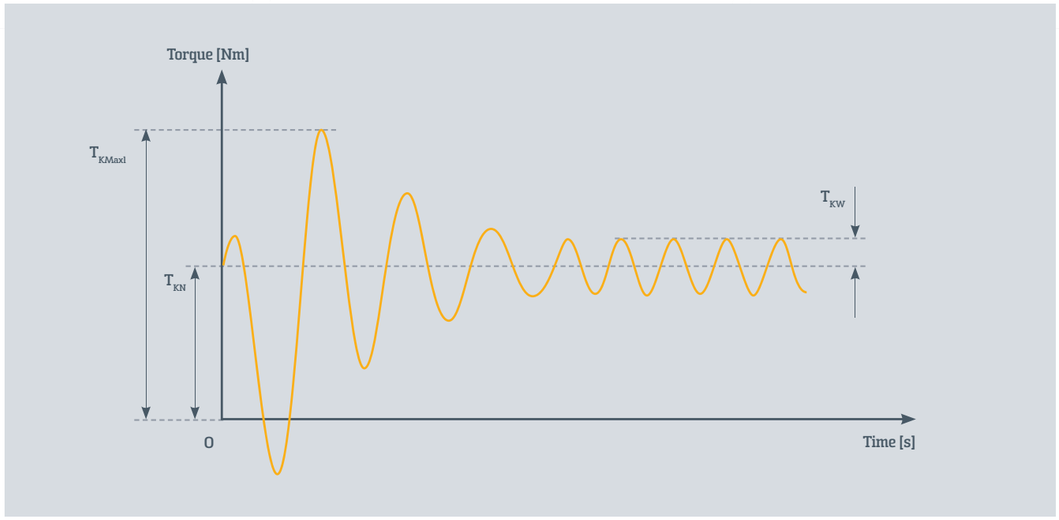
Spline connection with fastening function

## Additional Information

3D models of SGFlex-3F Series are available online:
**http://sgf.partcommunity.com**

Further applicable documents:
» SGF-TL-001 Explanation of technical data
» SGF-TL-002 Operating and assembly instructions flexible couplings and flex coupling assemblies
» Technical data sheets of flexible couplings

# Description Technical Data




## Nominal torque $T_{KN}$

$T_{KN}$ is the nominal torque of the flexible coupling. This torque can be permanently transferred in full by the flexible coupling.

## Maximum torque $T_{KMaxI}$

Torques at values of $T_{KMaxI}$ occur regularly in the normal operation of a machine or plant and can be transferred by the flexible coupling without damage as long as the load develops for a short time only and with a frequency not greater than 50,000 load cycles.
Torque peaks at the value of $T_{KMaxI}$ typically occur when starting or stopping, shifting, accelerating or braking.

## Maximum torque $T_{KMax2}$

Torques at a value of $T_{KMax2}$ do not occur in normal operation of a machine or plant, but can still be transferred by the flexible coupling without destroying it. Massive damage to the flexible coupling as well as damage to the screw connections may result, so that only emergency operation of the flexible coupling may be possible following the application of the $T_{KMax2}$ load.

Torques at a value of $T_{KMax2}$ seldom occur, e.g. in cases of damage to the machine, emergency shut-down or abuse. Following the occurrence of torques at a value of $T_{KMax2}$ we generally recommend replacing the flexible coupling as well as screw connection parts.

## Permissible continously oscillating torque $T_{KW}$

The permissible continuously oscillating torque $T_{KW}$ is the maximum permissible torque superimposed on the nominal torque. The specification of $T_{KW}$ is given as vibratory amplitude (peak value).

## Maximum permissible speed $n_{max}$

The maximum permissible speed $n_{max}$ can be completely utilized continuously. The specified rpm value applies irrespective of the operating temperature as long as the indicated limit values for the operating temperature are complied with. Refer to the operating and assembly instructions SGF-TL-002 (flexible couplings and flex coupling assemblies) for the operating temperature limits.



# Notes:

**Technical changes & technical data**
We reserve the right to make technical changes in the course of further development.
The technical data in the tables as well as on the drawings and datasheets only serve to describe the product and are not to be understood as a guaranteed characteristic in legal terms. All illustrations are only provided as examples.

**Disclaimer**
SGF makes every effort to always keep its offering up to date, substantially correct and complete. Nevertheless, the occurrence of errors cannot be completely ruled out.

SGF accepts no liability for the currency, substantial correctness or completeness of the information contained in this document, except when the errors have occurred due to intent or gross negligence. This concerns possible damages of a pecuniary or non-pecuniary nature suffered by third parties caused by the use of the products we offer.

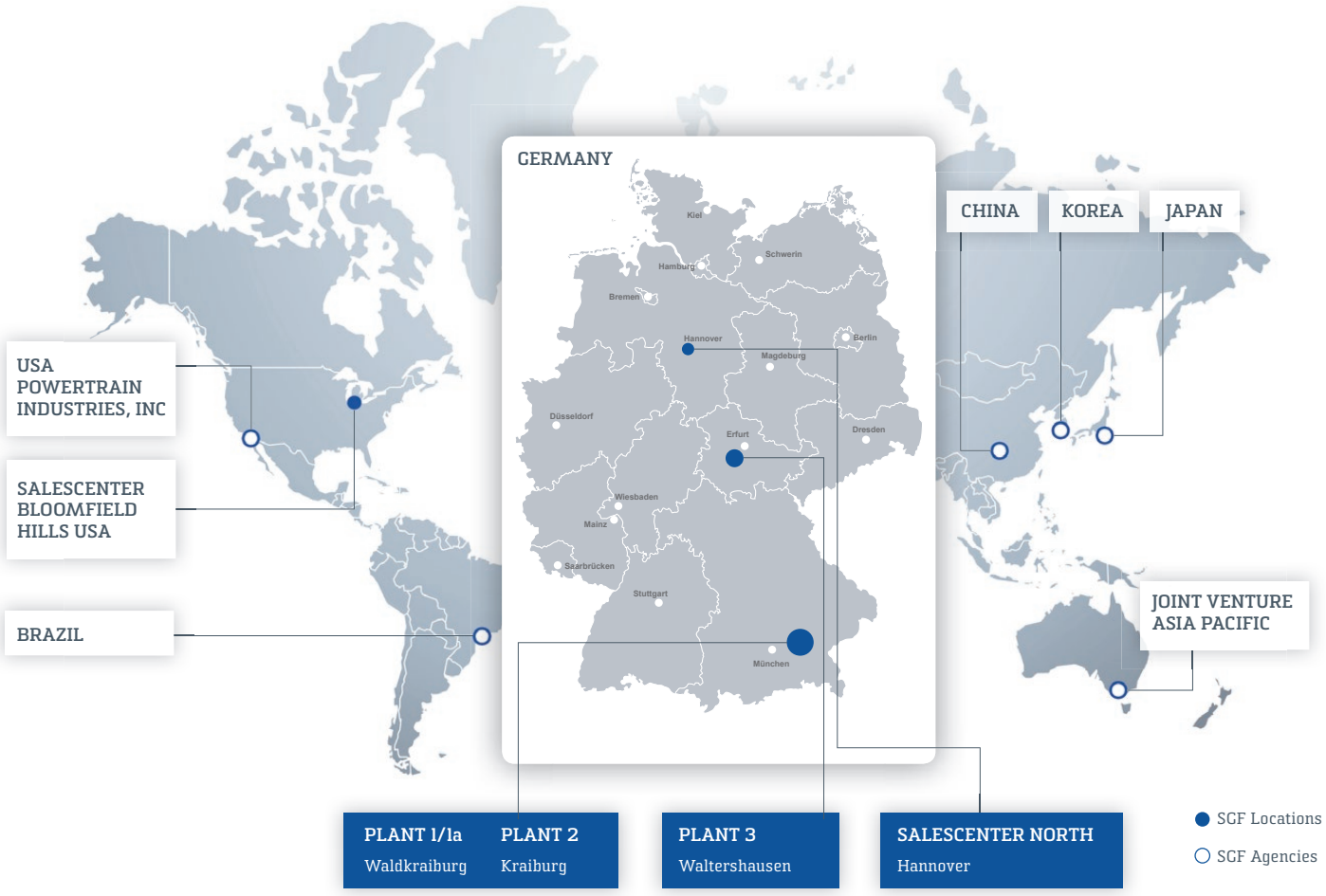
Installation and commissioning of flexible couplings may be performed solely by qualified personnel. We expressly point out that this document can only provide support and that the customer has responsibility for the configuration and operational safety of the total system.



**Contact**
For additional information about the product range and special designs, please contact: vertrieb@sgf.de

For additional information on services (vibratory behaviour of a total system, calculations for screw connections, etc.) please contact: service@sgf.de

# SGF LOCATIONS AND AGENCIES WORLDWIDE




**SGF is a leading manufacturer for tension based torque transmission and has 70 years of experience in cord and bonding technology.**

We offer a wide range of flexible, temperature-resistant products for torque transmission and vibration absorption.

Our main area of application is in general machine and systems engineering and in the automotive industry. We offer flexible couplings, dampers for drive shafts, exhaust hangers and absorbers as well as a variety of rubber-metal parts for the support of different aggregates.

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