

#### APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Feinnord Maschinen GmbH and its affiliates with respect to the use of products and components is given in good faith and without charge, and Feinnord assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

# FEINNORD

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# FEINNORD



## DISC COUPLING S SERIES



# DISC COUPLING



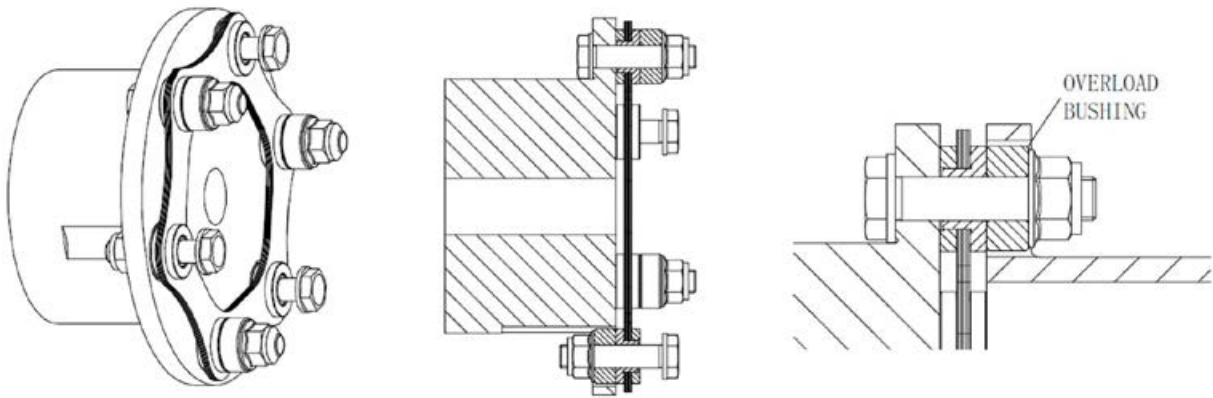
The disc pack, which can accommodate 1/2° to 1-1/2° of angular misalignment and is used in all Feinnord disc coupling products. Feinnord disc packs are manufactured using high grade stainless steel, ensuring high strength, high endurance to fatigue, and resistance to most environmental conditions.

## Advantages of the Feinnord Disc Coupling

- Eliminates the need for lubrication and coupling maintenance
- Coupling can be inspected without disassembly
- Condition of disc packs can be inspected with a strobe light while the machine is running
- Easy to assess equipment misalignment
- Torsionally rigid without any backlash
- No wearing parts
- Resistance to harsh environments
- Long life when properly sized and aligned
- High power density (higher torque for a given outside diameter)
- Feinnord supports the API-610 Standard up to 3,800 RPM
- Unitized disc packs ensure repeatability necessary for meeting the balance and piloting requirements as mandated by API-610

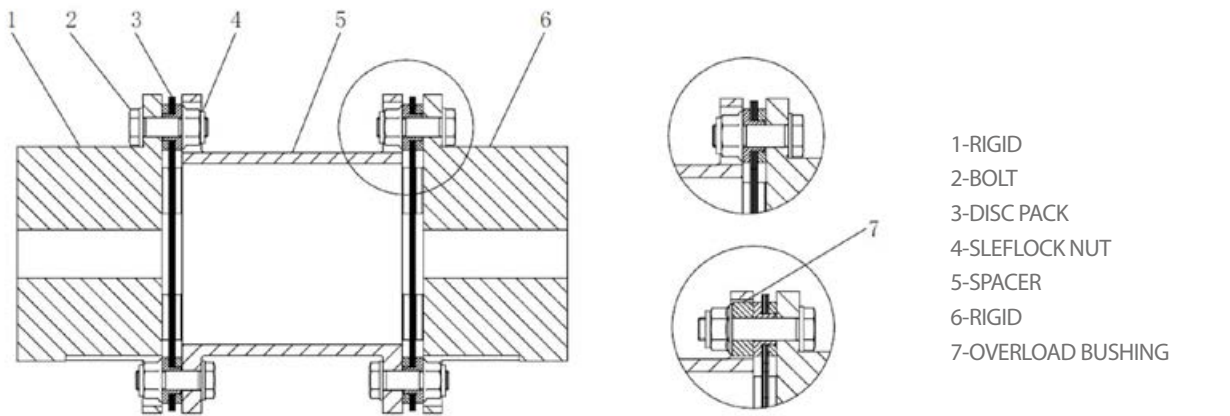
Feinnord disc couplings utilize unitized disc packs with both 6 or 8 bolt designs. The 8 bolt design can transmit greater torque than the 6 bolt design, however, it is not able to accommodate as much angular misalignment.

Feinnord couplings can be fitted with overload bushings to protect the disc pack during momentary torsional overloads.



Available with Overload Bushings to protect the coupling from momentary torque overloads  
Prevents the disc pack from being plastically deformed  
Allows for shorter BSE (shaft separation) because bolts can be turned to face inward

## a) COMPONENTS



- 1-RIGID
- 2-BOLT
- 3-DISC PACK
- 4-SLEFLOCK NUT
- 5-SPACER
- 6-RIGID
- 7-OVERLOAD BUSHING

# SELECTION

- a) The first step is to determine what coupling type is to be selected for this application. The size will be determined by the selection torque and the shaft diameters.
- b) Calculate nominal torque TN (Nm) as follows:

$$T=9549 \frac{P_N \cdot SF}{n}$$

P<sub>N</sub>= Max. actual power in (Kw)

n= Coupling speed in (rpm.)

SF= Service factor

Selection Service Factors (K): Recommended service factors are given in page1111. The service factor can vary for each application and depending among other on:

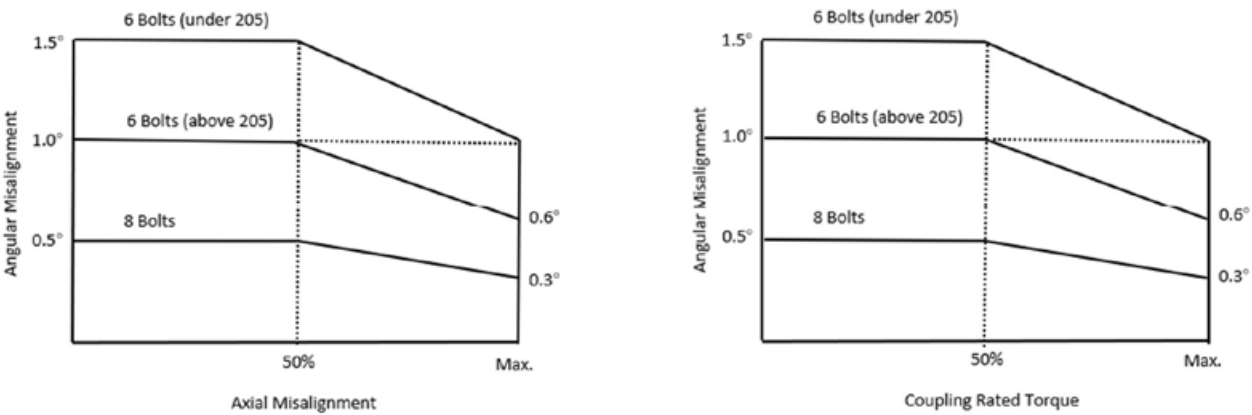
- a. Type of driving and driven machine
- b. Reversing / Non-reversing load
- c. Peak torques

Select coupling size from catalogue with nominal torque capacity same or higher than obtained.

If people are transported, Feinnord does not recommend and will not warranty the use of the coupling.

- c) Speed given in catalogue is maximum value for unbalanced couplings. For higher operational speed the coupling must be dynamically balanced and other materials than carbon steels might be used. Please contact Feinnord engineering for support.
- d) Check if existing or predicted axial, angular and offset misalignments are within permissible values as shown in the catalog. The permissible axial misalignment and torque depend on the angular misalignment as per shown below. (Angular misalignment is given for a disc pack. Axial misalignment is measured for a complete coupling with 2 disc packs ).

**Angular misalignment, axial misalignment, and rated torque** are all related to the coupling's capacity to accommodate application torque over any period of time. As illustrated in the following charts, when the application torque increases to 50% of the coupling capacity, the ability of the coupling to accommodate angular misalignment to is reduced. The same holds true for the ability to accommodate axial misalignment.



- e) Check in the catalogue maximum bore capacity for selected coupling. Should shafts be larger than the maximum admissible bore, select next bigger necessary size diameter.

## SELECTION EXAMPLE

### Inputs

Motor power PN = 230Kw.

Driven equipment is a centrifugal pump.

Speed n = 1,000 r.p.m.

Gearbox shaft d1 = 75mm.

Drum side shaft d2 = 70mm.

Service Factor for centrifugal pump in page05, SF=1.0+0=1.0

### Calculation

Torque

$$T=9549 \frac{P_N \cdot SF}{n \cdot Fa} = 9549 \frac{230 \cdot 1.0}{1000} = 2196Nm$$

Tentative selection is SSD6186, that has a maximum bore diameter of 80 mm, therefore this dimension is larger than the existing shaft diameters.

The SSD6186 coupling is rated for a maximum unbalanced speed of 4,200 RPM, more than enough to support the application speed of 1,000 RPM..

### Service Factor

The two service factors SF<sub>A</sub> and SF<sub>D</sub> must be added resulting in the combined service factor SF. SF = SF<sub>A</sub> + SF<sub>D</sub>

**Driving equipment SF<sub>A</sub>**  
**BLOWERS, FANS**

|                               |      |
|-------------------------------|------|
| Centrifugal                   | 1.0  |
| Lobe / Vane / Turboblowsers   | 1.25 |
| Forced draught fans           | 1.5  |
| Induc.draught with damper     | 1.5  |
| Induc.draught without control | 2.0  |
| Cooling towers                | 2.0  |

**CHEMICAL INDUSTRY**

|                            |      |
|----------------------------|------|
| Agitators (thin liquid)    | 1.0  |
| Agitators (viscous liquid) | 1.5  |
| Centrifuges (light)        | 1.25 |
| Centrifuges (heavy)        | 1.75 |
| Mixers                     | 1.75 |

**COMPRESSORS**

|                     |      |
|---------------------|------|
| Centrifugal         | 1.0  |
| Lobe/Rotary         | 1.25 |
| Turbocompressors    | 1.75 |
| Reciprocating:      |      |
| 1 to 3 cylinders    | 3.0  |
| 4 or more cylinders | 1.75 |

**CONVEYOR, HOISTS, LEVATORS**

|                               |            |
|-------------------------------|------------|
| Conveyors:                    |            |
| Screw / Apron / Belt / Chain  | 1.25       |
| Bucket / Rotary / Lifts       | 1.5        |
| Reciprocating                 | 3.0        |
| Hoists:                       |            |
| Medium duty                   | 2.5        |
| Heavy duty                    | 3.0        |
| Elevators:                    |            |
| Centrifugal and gravity disch | 1.25       |
| <b>DREDGERS</b>               | <b>2.0</b> |

**FOOD INDUSTRY**

|                                |      |
|--------------------------------|------|
| Packaging machines and fillers | 1.25 |
| Kneading machines              | 1.5  |
| Cane crushers                  | 1.5  |
| Cane cutters                   | 1.5  |
| Cane mills                     | 2.0  |
| Sugar beet cutters             | 1.5  |
| Sugar beet washing machines    | 1.5  |

**GENERATORS**

|                      |     |
|----------------------|-----|
| Even load            | 1.0 |
| Frequency converters | 1.5 |
| Welding generators   | 2.0 |

**MACHINE TOOLS**

|                                 |     |
|---------------------------------|-----|
| Main Drives                     | 2.0 |
| Auxiliary and transverse drives | 1.5 |

**METAL WORKING**

|                           |     |
|---------------------------|-----|
| Presses/Hammers           | 2.0 |
| Straighteners             | 2.0 |
| Bending machines / Shears | 1.5 |
| Punching machines         | 2.0 |

**MARINE APPLICATIONS**  
**MINING AND STONES**

|                  |     |
|------------------|-----|
| Crushers         | 2.5 |
| Mills            | 2.5 |
| Mine ventilators | 2.0 |
| Vibrators        | 1.5 |

**OIL INDUSTRY**

|                           |     |
|---------------------------|-----|
| Pipeline pumps            | 1.5 |
| Rotary drilling equipment | 2.0 |

**PAPER INDUSTRY**

|                  |      |
|------------------|------|
| Calenders        | 2.0  |
| Couches          | 2.0  |
| Drying cylinders | 2.25 |
| Pulpers          | 2.0  |
| Pulp grinders    | 2.0  |
| Suction rolls    | 2.0  |
| Wet presses      | 2.0  |
| Reels            | 2.0  |
| Agitators        | 2.0  |

**PLASTIC INDUSTRY**

|                             |      |
|-----------------------------|------|
| Calenders, Crushers, Mixers | 1.75 |
|-----------------------------|------|

**PUMPS**

|                                    |     |
|------------------------------------|-----|
| Centrifugal,General Feed or Boiler |     |
| Feed                               | 1.0 |
| Centrifugal, Slurry                | 1.5 |
| Centrifugal, Dredge                | 2.0 |
| Rotary / Gear / Lobe or Vane       | 1.5 |

**ROLLING MILLS**

|                            |      |
|----------------------------|------|
| Reciprocating:             |      |
| 1 cylinder                 | 3.0  |
| 2 cylinders, single acting | 2.0  |
| 2 cylinders, double acting | 1.75 |
| 3 cylinders or more        | 1.5  |
| Billet shears              | 2.5  |
| Chain transfers            | 1.5  |
| Cold rolling mills         | 2.0  |
| Continuous casting plants  | 2.5  |
| Cooling beds               | 1.5  |
| Cropping shears            | 2.0  |
| Cross transfers            | 1.5  |
| Descaling machines         | 2.0  |

|                             |     |
|-----------------------------|-----|
| Heavy and medium duty mills | 3.0 |
| Ingot and blooming mills    | 2.5 |
| Ingot handling machinery    | 2.5 |
| Ingot pushers               | 2.5 |
| Manipulators                | 2.0 |
| Plate shears                | 2.0 |
| Roller adjustment drives    | 1.5 |
| Roller straighteners        | 1.5 |
| Roller tables (heavy)       | 2.5 |
| Roller tables (light)       | 1.5 |
| Sheet mills                 | 2.5 |

|                           |     |
|---------------------------|-----|
| Trimming shears           | 1.5 |
| Tube and welding machines | 2.0 |
| Winding machines          | 1.5 |
| Wire drawing benches      | 1.5 |

**RUBBER INDUSTRY**

|                                 |      |
|---------------------------------|------|
| Extruder                        | 1.75 |
| Calender                        | 2.0  |
| Mixing mill / Refiner / Crusher | 2.5  |

**STEEL PLANTS**

|                              |     |
|------------------------------|-----|
| Blast furnace blowers        | 1.5 |
| Converters                   | 2.5 |
| Inclined blast furnace elev. | 2.0 |
| Crushers                     | 2.0 |

**TEXTILE MACHINES**

|                              |     |
|------------------------------|-----|
| Printing and drying machines | 1.5 |
| Tanning vats                 | 1.5 |
| Calenders                    | 1.5 |
| Looms                        | 1.5 |

**WATER AND WASTE INDUSTRY**

|                                |     |
|--------------------------------|-----|
| Aerators, Screw pumps, Screens | 1.5 |
|--------------------------------|-----|

**WOOD WORKING MACHINERY**

|                                 |     |
|---------------------------------|-----|
| Trimmers, Barkers, Saws, Planes | 2.0 |
|---------------------------------|-----|

The factors in table above are for general guidance and can be modified by customers' specialist knowledge of their own equipment.

**Driving equipment SFD**

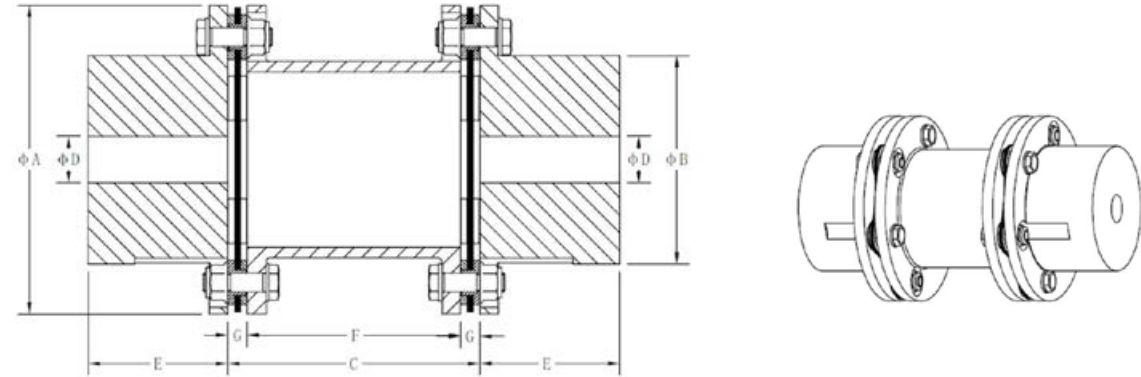
|                       |     |
|-----------------------|-----|
| Multi-cylinder engine |     |
| 8 or more             | 0.5 |
| 6                     | 1.0 |
| 4 or 5                | 1.5 |

Less than 4 *Refer to Feinnord*  
Variable speed motors 0.8  
Electric motors1 and turbines 0

Please consult our Application Engineering Department if axial excitations are foreseeable either on the driving or driven side

**SERIES SSD6 | SIZE 92 - 510**

**Standard**



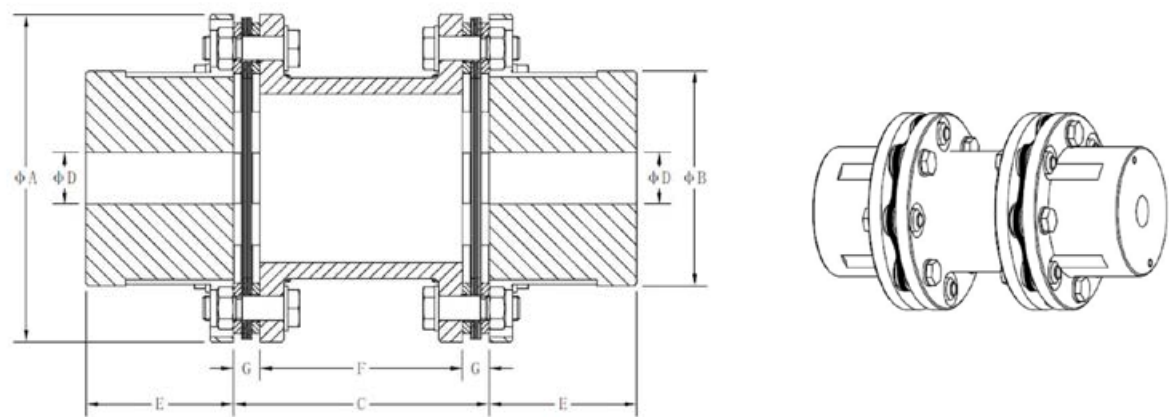
| Size | TN Nm   | TP Nm   | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | B   | C<br>(3) | D Max<br>(4) | E   | F     | G    | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|---------|---------|--------------------------------|------------------------------|-----|-----|----------|--------------|-----|-------|------|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 92   | 240     | 480     | 9,100                          | 22,700                       | 90  | 58  | 71       | 41           | 40  | 56.0  | 7.5  | 0.002                    | 2.1              | 1.5                                     | 1.5                                        |
| 112  | 575     | 1,150   | 7,200                          | 18,000                       | 100 | 70  | 88       | 50           | 50  | 71.2  | 8.4  | 0.004                    | 2.9              | 2.1                                     |                                            |
| 135  | 1,100   | 2,200   | 5,840                          | 14,600                       | 132 | 89  | 108      | 65           | 60  | 91.2  | 8.4  | 0.012                    | 5.5              | 2.6                                     |                                            |
| 160  | 2,000   | 4,000   | 4,920                          | 12,300                       | 158 | 104 | 124      | 75           | 70  | 101.6 | 11.2 | 0.025                    | 8.6              | 3.1                                     |                                            |
| 186  | 3,300   | 6,600   | 4,200                          | 10,500                       | 185 | 121 | 140      | 87           | 80  | 112.0 | 14.0 | 0.063                    | 15               | 3.7                                     |                                            |
| 205  | 4,600   | 9,200   | 3,840                          | 9,600                        | 202 | 132 | 158      | 95           | 90  | 127.0 | 15.5 | 0.11                     | 21               | 3.8                                     |                                            |
| 230  | 7,000   | 14,000  | 3,400                          | 8,500                        | 228 | 150 | 174      | 107          | 100 | 139.0 | 17.5 | 0.20                     | 30               | 4.2                                     |                                            |
| 256  | 10,200  | 20,400  | 3,080                          | 7,700                        | 255 | 163 | 196      | 117          | 115 | 155.0 | 20.5 | 0.32                     | 40               | 4.7                                     |                                            |
| 280  | 14,200  | 28,400  | 2,800                          | 7,000                        | 278 | 183 | 218      | 131          | 125 | 175.6 | 21.2 | 0.56                     | 57               | 5.2                                     | 1                                          |
| 305  | 20,000  | 40,000  | 2,560                          | 6,400                        | 302 | 201 | 234      | 145          | 135 | 185.2 | 24.4 | 0.86                     | 74               | 5.7                                     |                                            |
| 326  | 25,000  | 50,000  | 2,400                          | 6,000                        | 325 | 219 | 254      | 156          | 145 | 202.0 | 26.0 | 1.17                     | 89               | 6.5                                     |                                            |
| 346  | 31,000  | 62,000  | 2,200                          | 5,500                        | 345 | 230 | 270      | 165          | 155 | 213.6 | 28.2 | 1.63                     | 109              | 6.9                                     |                                            |
| 382  | 42,300  | 84,600  | 2,040                          | 5,100                        | 380 | 249 | 296      | 178          | 170 | 232.0 | 32.0 | 2.64                     | 146              | 7.6                                     |                                            |
| 412  | 57,100  | 114,200 | 1,880                          | 4,700                        | 410 | 269 | 320      | 192          | 185 | 253.6 | 33.2 | 4.04                     | 190              | 8.2                                     |                                            |
| 445  | 73,500  | 147,000 | 1,740                          | 4,350                        | 440 | 289 | 334      | 206          | 195 | 261.2 | 36.4 | 5.45                     | 224              | 8.8                                     |                                            |
| 480  | 92,000  | 184,000 | 1,680                          | 4,200                        | 475 | 309 | 358      | 220          | 210 | 281.6 | 38.2 | 8.20                     | 288              | 9.5                                     |                                            |
| 510  | 117,000 | 234,000 | 1,520                          | 3,800                        | 505 | 327 | 394      | 233          | 230 | 310.0 | 42.0 | 11.96                    | 366              | 10.1                                    |                                            |

**Larger sizes are available on demand.**

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, D max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- 7) Overload bushings (SSD6xxxR) are available on demand.

SERIES SSD8 | SIZE 280 - 766

Standard



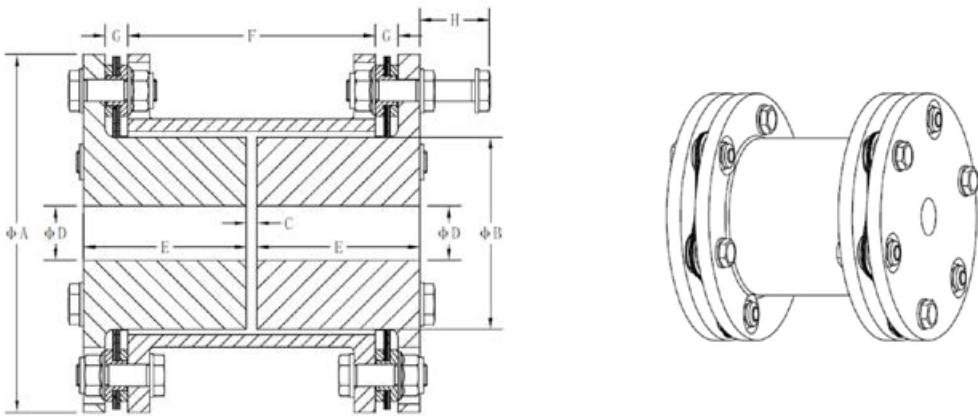
| Size | TN Nm  | TP Nm   | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | B   | C<br>(3) | D Max<br>(4) | E   | F     | G    | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|--------|---------|--------------------------------|------------------------------|-----|-----|----------|--------------|-----|-------|------|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 280  | 20000  | 40000   | 2800                           | 7000                         | 278 | 183 | 218      | 131          | 125 | 175.6 | 21.2 | 0.573                    | 59               | 3.7                                     | 0.5                                        |
| 305  | 30000  | 60000   | 2560                           | 6400                         | 302 | 201 | 234      | 145          | 135 | 185.2 | 24.4 | 0.878                    | 77               | 4.0                                     |                                            |
| 326  | 37000  | 74000   | 2400                           | 6000                         | 325 | 219 | 254      | 156          | 145 | 202.0 | 26.0 | 1.199                    | 92               | 4.3                                     |                                            |
| 346  | 46000  | 92000   | 2200                           | 5500                         | 345 | 230 | 270      | 165          | 155 | 213.6 | 28.2 | 1.660                    | 112              | 4.6                                     |                                            |
| 382  | 63000  | 126000  | 2040                           | 5100                         | 380 | 249 | 296      | 178          | 170 | 232.0 | 32.0 | 2.715                    | 150              | 5.0                                     |                                            |
| 412  | 86000  | 172000  | 1880                           | 4700                         | 410 | 269 | 320      | 192          | 185 | 253.6 | 33.2 | 4.11                     | 195              | 5.4                                     |                                            |
| 445  | 110000 | 220000  | 1740                           | 4350                         | 440 | 289 | 334      | 206          | 195 | 261.2 | 36.4 | 5.54                     | 230              | 5.8                                     |                                            |
| 480  | 138000 | 276000  | 1680                           | 4200                         | 475 | 309 | 358      | 220          | 210 | 281.6 | 38.2 | 8.32                     | 295              | 6.3                                     |                                            |
| 510  | 175000 | 350000  | 1520                           | 3800                         | 505 | 327 | 394      | 233          | 230 | 310.0 | 42.0 | 12.13                    | 374              | 6.7                                     |                                            |
| 545  | 220000 | 440000  | 1440                           | 3600                         | 540 | 330 | 416      | 235          | 240 | 324.0 | 46.0 | 16.77                    | 454              | 7.2                                     |                                            |
| 575  | 259000 | 518000  | 1360                           | 3400                         | 570 | 350 | 450      | 250          | 250 | 346.8 | 51.6 | 22.02                    | 535              | 7.6                                     |                                            |
| 610  | 315000 | 630000  | 1280                           | 3200                         | 605 | 370 | 474      | 265          | 265 | 367.6 | 53.2 | 28.00                    | 617              | 7.8                                     |                                            |
| 640  | 383000 | 766000  | 1240                           | 3100                         | 635 | 385 | 521      | 275          | 280 | 399.4 | 60.8 | 36.64                    | 728              | 8.2                                     |                                            |
| 680  | 454000 | 908000  | 1160                           | 2900                         | 675 | 410 | 558      | 290          | 300 | 427.6 | 65.2 | 48.62                    | 875              | 8.4                                     |                                            |
| 700  | 528000 | 1056000 | 1120                           | 2800                         | 700 | 420 | 595      | 300          | 315 | 457.4 | 68.8 | 62.26                    | 1021             | 8.9                                     |                                            |
| 735  | 608000 | 1216000 | 1080                           | 2700                         | 730 | 440 | 610      | 315          | 330 | 467.6 | 71.2 | 74.87                    | 1130             | 9.2                                     |                                            |
| 766  | 700000 | 1400000 | 1040                           | 2600                         | 760 | 460 | 642      | 330          | 350 | 496.4 | 72.8 | 94.87                    | 1310             | 9.6                                     |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, D max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page 4 for combined permissible misalignment.
- 7) Overload bushings (SSD8xxxR) are available on demand.

SERIES SDR6 | SIZE 92 - 510

Close Coupled



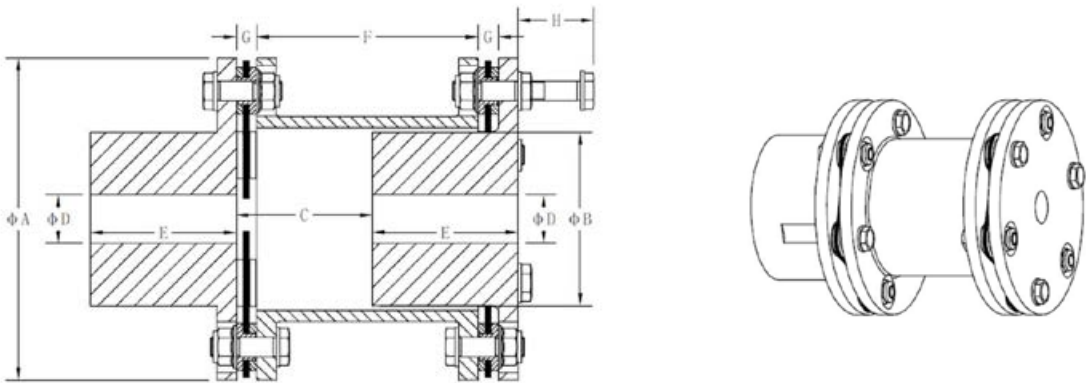
| Size | TN Nm   | TP Nm   | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | B   | C<br>(3) | D Max<br>(4) | E   | F     | G    | H<br>(7) | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|---------|---------|--------------------------------|------------------------------|-----|-----|----------|--------------|-----|-------|------|----------|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 92   | 240     | 480     | 9,100                          | 22,700                       | 90  | 44  | 3        | 31           | 40  | 56.0  | 7.5  | 30       | 0.002                    | 1.7              | 1.5                                     | 1.5                                        |
| 112  | 575     | 1,150   | 7,200                          | 18,000                       | 110 | 54  | 4        | 39           | 50  | 71.2  | 8.4  | 45       | 0.003                    | 1.8              | 2.1                                     |                                            |
| 135  | 1,100   | 2,200   | 5,840                          | 14,600                       | 132 | 71  | 4        | 50           | 60  | 91.2  | 8.4  | 45       | 0.010                    | 3.8              | 2.6                                     |                                            |
| 160  | 2,000   | 4,000   | 4,920                          | 12,300                       | 158 | 84  | 4        | 60           | 70  | 101.6 | 11.2 | 55       | 0.021                    | 5.8              | 3.1                                     |                                            |
| 186  | 3,300   | 6,600   | 4,200                          | 10,500                       | 185 | 95  | 4        | 68           | 80  | 112.0 | 14.0 | 65       | 0.053                    | 10               | 3.7                                     |                                            |
| 205  | 4,600   | 9,200   | 3,840                          | 9,600                        | 202 | 108 | 6        | 75           | 90  | 127.0 | 15.5 | 75       | 0.091                    | 15               | 3.8                                     |                                            |
| 230  | 7,000   | 14,000  | 3,400                          | 8,500                        | 228 | 123 | 6        | 85           | 100 | 139.0 | 17.5 | 85       | 0.17                     | 21               | 4.2                                     | 1                                          |
| 256  | 10,200  | 20,400  | 3,080                          | 7,700                        | 255 | 135 | 6        | 95           | 115 | 155.0 | 20.5 | 100      | 0.27                     | 27               | 4.7                                     |                                            |
| 280  | 14,200  | 28,400  | 2,800                          | 7,000                        | 278 | 152 | 8        | 105          | 125 | 175.6 | 21.2 | 105      | 0.46                     | 36               | 5.2                                     |                                            |
| 305  | 20,000  | 40,000  | 2,560                          | 6,400                        | 302 | 165 | 8        | 115          | 135 | 185.2 | 24.4 | 115      | 0.71                     | 46               | 5.7                                     |                                            |
| 326  | 25,000  | 50,000  | 2,400                          | 6,000                        | 325 | 174 | 8        | 125          | 145 | 202.0 | 26.0 | 115      | 0.96                     | 55               | 6.5                                     |                                            |
| 346  | 31,000  | 62,000  | 2,200                          | 5,500                        | 345 | 186 | 8        | 130          | 155 | 213.6 | 28.2 | 125      | 1.34                     | 70               | 6.9                                     |                                            |
| 382  | 42,300  | 84,600  | 2,040                          | 5,100                        | 380 | 204 | 10       | 145          | 170 | 232.0 | 32.0 | 140      | 2.17                     | 92               | 7.6                                     |                                            |
| 412  | 57,100  | 114,200 | 1,880                          | 4,700                        | 410 | 223 | 10       | 160          | 185 | 253.6 | 33.2 | 150      | 3.28                     | 116              | 8.2                                     |                                            |
| 445  | 73,500  | 147,000 | 1,740                          | 4,350                        | 440 | 233 | 10       | 165          | 195 | 261.2 | 36.4 | 165      | 4.46                     | 136              | 8.8                                     |                                            |
| 480  | 92,000  | 184,000 | 1,680                          | 4,200                        | 475 | 252 | 10       | 180          | 210 | 281.6 | 38.2 | 180      | 6.71                     | 172              | 9.5                                     |                                            |
| 510  | 117,000 | 234,000 | 1,520                          | 3,800                        | 505 | 266 | 12       | 190          | 230 | 310.0 | 42.0 | 195      | 9.76                     | 228              | 10.1                                    |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, D max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- 7) The dimension H is required for dismounting the fitted bolts.
- 8) Overload bushings (SDR6xxxR) are available on demand.

SERIES SER6 | SIZE 92 - 510

Close Coupled



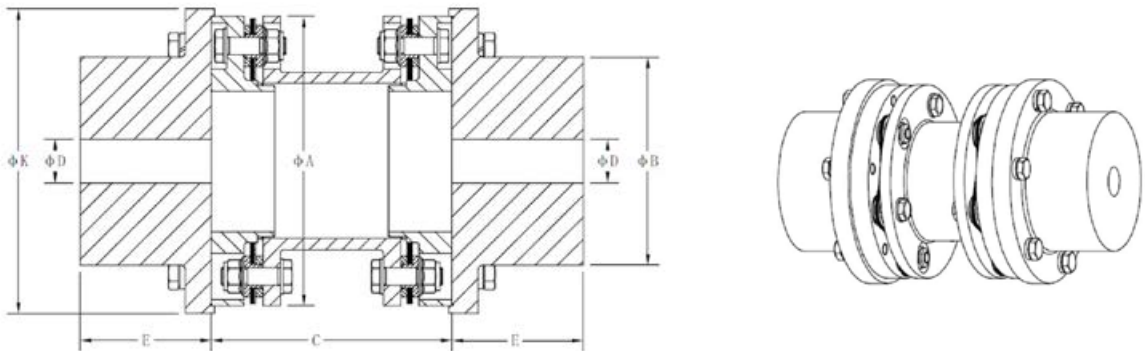
| Size | TN Nm   | TP Nm   | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | B   | C<br>(3) | D Max<br>(4) | E   | F     | G    | H<br>(7) | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|---------|---------|--------------------------------|------------------------------|-----|-----|----------|--------------|-----|-------|------|----------|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 92   | 240     | 480     | 9.100                          | 22.700                       | 90  | 44  | 3        | 31           | 40  | 50.0  | 7.5  | 30       | 0.002                    | 1.7              | 1.5                                     | 1.5                                        |
| 112  | 575     | 1.150   | 7.200                          | 18,000                       | 110 | 54  | 4        | 39           | 50  | 71.2  | 8.4  | 45       | 0.003                    | 1.8              | 2.1                                     |                                            |
| 135  | 1.100   | 2.200   | 5,840                          | 14,600                       | 132 | 71  | 4        | 50           | 60  | 91.2  | 8.4  | 45       | 0.010                    | 3.8              | 2.6                                     |                                            |
| 160  | 2.000   | 4.000   | 4,920                          | 12,300                       | 158 | 84  | 4        | 60           | 70  | 101.6 | 11.2 | 55       | 0.021                    | 5.8              | 3.1                                     |                                            |
| 186  | 3,300   | 6.600   | 4.200                          | 10,500                       | 185 | 95  | 4        | 68           | 80  | 112.0 | 14.0 | 65       | 0.053                    | 10               | 3.7                                     |                                            |
| 205  | 4,600   | 9.200   | 3.840                          | 9,600                        | 202 | 108 | 6        | 75           | 90  | 127.0 | 15.5 | 75       | 0.091                    | 15               | 3.8                                     |                                            |
| 230  | 7,000   | 14,000  | 3.400                          | 8,500                        | 228 | 123 | 6        | 85           | 100 | 139.0 | 17.5 | 85       | 0.17                     | 21               | 4.2                                     | 1                                          |
| 256  | 10,200  | 20,400  | 3.080                          | 7,700                        | 255 | 135 | 6        | 95           | 115 | 155.0 | 20.5 | 100      | 0.27                     | 27               | 4.7                                     |                                            |
| 280  | 14,200  | 28,400  | 2.800                          | 7,000                        | 278 | 152 | 8        | 105          | 125 | 175.6 | 21.2 | 105      | 0.46                     | 36               | 5.2                                     |                                            |
| 305  | 20,000  | 40,000  | 2.560                          | 6,400                        | 302 | 165 | 8        | 115          | 135 | 185.2 | 24.4 | 115      | 0.71                     | 46               | 5.7                                     |                                            |
| 326  | 25,000  | 50,000  | 2.400                          | 6000                         | 325 | 174 | 8        | 125          | 145 | 202.0 | 26.0 | 115      | 0.96                     | 55               | 6.5                                     |                                            |
| 346  | 31,000  | 62,000  | 2.200                          | 5,500                        | 345 | 186 | 8        | 130          | 155 | 213.6 | 28.2 | 125      | 1.34                     | 70               | 6.9                                     |                                            |
| 382  | 42,300  | 84,600  | 2.040                          | 5,100                        | 380 | 204 | 10       | 145          | 170 | 232.0 | 32.0 | 140      | 2.17                     | 92               | 7.6                                     |                                            |
| 412  | 57,100  | 114,200 | 1.880                          | 4,700                        | 410 | 223 | 10       | 100          | 185 | 253.6 | 33.2 | 150      | 3.28                     | 116              | 8.2                                     |                                            |
| 445  | 73,500  | 147,000 | 1,740                          | 4,350                        | 440 | 233 | 10       | 165          | 195 | 261.2 | 36.4 | 165      | 4.46                     | 136              | 8.8                                     |                                            |
| 480  | 92,000  | 184,000 | 1.680                          | 4,200                        | 475 | 252 | 10       | 180          | 210 | 281.6 | 38.2 | 180      | 6.71                     | 172              | 9.5                                     |                                            |
| 510  | 117,000 | 234,000 | 1.520                          | 3,800                        | 505 | 266 | 12       | 190          | 230 | 310.0 | 42.0 | 195      | 9.76                     | 228              | 10.1                                    |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, D max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- 7) The dimension H is required for dismantling the fitted bolts.
- 8) Overload bushings (SER6xxxR) are available on demand.

SERIES SAS6 | SIZE 92 - 510

Drop-out  
API 610



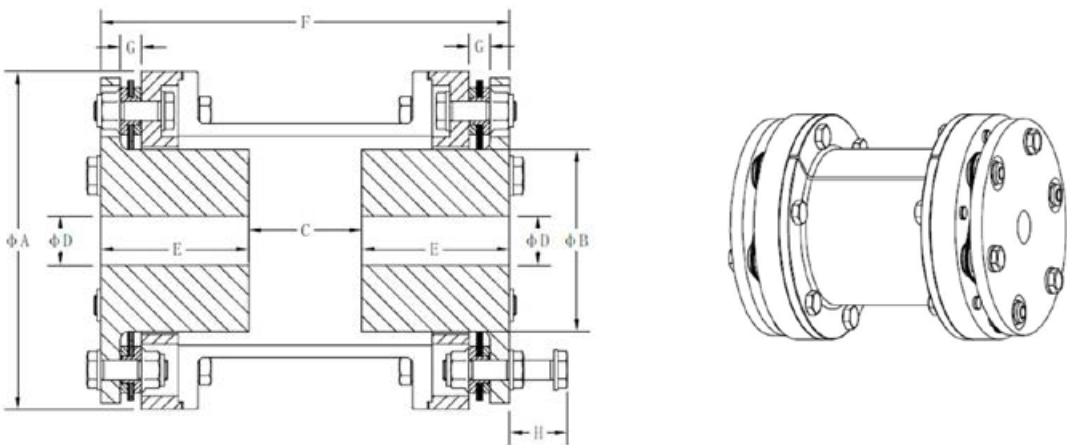
| Size | TN Nm   | TP Nm   | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | B   | C<br>(3) | D Max<br>(4) | E   | K   | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|---------|---------|--------------------------------|------------------------------|-----|-----|----------|--------------|-----|-----|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 92   | 240     | 480     | 9,100                          | 22,700                       | 90  | 60  | 79       | 43           | 40  | 94  | 0.005                    | 3.6              | 1.5                                     | 1.5                                        |
| 112  | 575     | 1,150   | 7,200                          | 18,000                       | 110 | 73  | 108      | 52           | 50  | 115 | 0.009                    | 5.4              | 2.1                                     |                                            |
| 135  | 1,100   | 2,200   | 5,840                          | 14,600                       | 132 | 95  | 110      | 67           | 60  | 139 | 0.024                    | 10               | 2.6                                     |                                            |
| 160  | 2,000   | 4,000   | 4,920                          | 12,300                       | 158 | 112 | 140      | 80           | 70  | 165 | 0.062                    | 18               | 3.1                                     |                                            |
| 186  | 3,300   | 6,600   | 4,200                          | 10,500                       | 185 | 134 | 160      | 95           | 80  | 193 | 0.13                     | 28               | 3.7                                     |                                            |
| 205  | 4,600   | 9,200   | 3,840                          | 9,600                        | 202 | 144 | 185      | 102          | 90  | 210 | 0.22                     | 38               | 3.8                                     |                                            |
| 230  | 7,000   | 14,000  | 3,400                          | 8,500                        | 228 | 160 | 205      | 115          | 100 | 236 | 0.41                     | 55               | 4.2                                     | 1                                          |
| 256  | 10,200  | 20,400  | 3,080                          | 7,700                        | 255 | 175 | 250      | 125          | 115 | 263 | 0.65                     | 72               | 4.7                                     |                                            |
| 280  | 14,200  | 28,400  | 2,800                          | 7,000                        | 278 | 195 | 255      | 140          | 125 | 286 | 1.12                     | 101              | 5.2                                     |                                            |
| 305  | 20,000  | 40,000  | 2,560                          | 6,400                        | 302 | 217 | 280      | 155          | 135 | 310 | 1.72                     | 133              | 5.7                                     |                                            |
| 326  | 25,000  | 50,000  | 2,400                          | 6,000                        | 325 | 240 | 285      | 170          | 145 | 333 | 2.35                     | 160              | 6.5                                     |                                            |
| 346  | 31,000  | 62,000  | 2,200                          | 5,500                        | 345 | 255 | 320      | 180          | 155 | 355 | 3.26                     | 193              | 6.9                                     |                                            |
| 382  | 42,300  | 84,600  | 2,040                          | 5,100                        | 380 | 295 | 345      | 210          | 170 | 390 | 5.32                     | 262              | 7.6                                     |                                            |
| 412  | 57,100  | 114,200 | 1,880                          | 4,700                        | 410 | 315 | 375      | 225          | 185 | 420 | 8.02                     | 335              | 8.2                                     |                                            |
| 445  | 73,500  | 147,000 | 1,740                          | 4,350                        | 440 | 330 | 415      | 235          | 195 | 450 | 10.78                    | 397              | 8.8                                     |                                            |
| 480  | 92,000  | 184,000 | 1,680                          | 4,200                        | 475 | 355 | 450      | 250          | 210 | 485 | 16.02                    | 505              | 9.5                                     |                                            |
| 510  | 117,000 | 234,000 | 1,520                          | 3,800                        | 505 | 385 | 490      | 275          | 230 | 515 | 22.94                    | 631              | 10.1                                    |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, D max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- 7) Overload bushings (SAS6xxxR) are available on demand.

SERIES SGA6 | SIZE 92 - 305

Close Coupled with Split Spacer



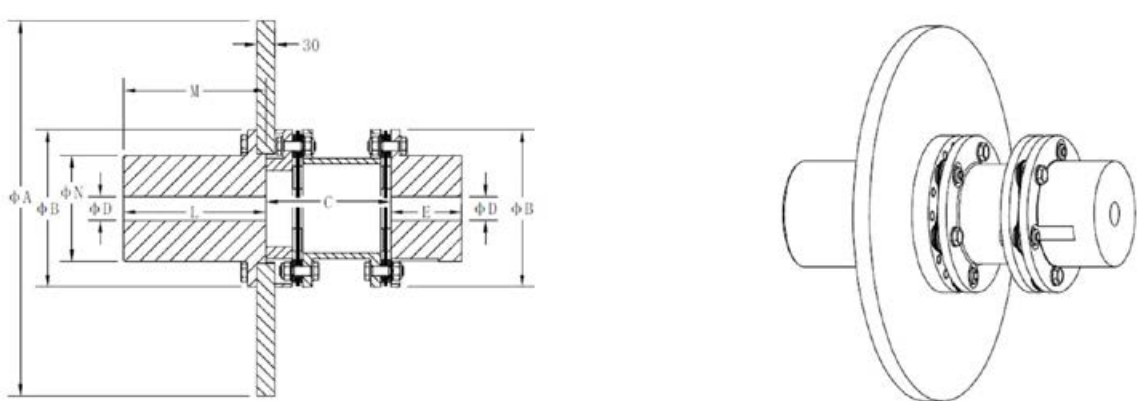
| Size | TN Nm  | TP Nm  | N Max rpm<br>(1) | A   | B   | C<br>(3) | D Max<br>(4) | E   | F   | G    | H   | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|--------|--------|------------------|-----|-----|----------|--------------|-----|-----|------|-----|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 92   | 240    | 480    | 11600            | 90  | 60  | 79       | 43           | 40  | 89  | 7.5  | 30  | 0.006                    | 4.3              | 1.5                                     | 1.5                                        |
| 112  | 575    | 1,150  | 9500             | 100 | 73  | 108      | 52           | 50  | 110 | 8.4  | 45  | 0.016                    | 7.5              | 2.1                                     |                                            |
| 135  | 1,100  | 2,200  | 7900             | 132 | 95  | 110      | 67           | 60  | 130 | 8.4  | 45  | 0.037                    | 11               | 2.6                                     |                                            |
| 160  | 2,000  | 4,000  | 6600             | 158 | 112 | 140      | 80           | 70  | 152 | 11.2 | 55  | 0.08                     | 19               | 3.1                                     |                                            |
| 186  | 3,300  | 6,600  | 5600             | 185 | 134 | 160      | 95           | 80  | 175 | 14.0 | 65  | 0.16                     | 29               | 3.7                                     |                                            |
| 205  | 4,600  | 9,200  | 5150             | 202 | 144 | 185      | 102          | 90  | 197 | 15.5 | 78  | 0.26                     | 38               | 3.8                                     | 1                                          |
| 230  | 7,000  | 14,000 | 4550             | 228 | 160 | 205      | 115          | 100 | 219 | 17.5 | 85  | 0.48                     | 57               | 4.2                                     |                                            |
| 256  | 10,200 | 20,400 | 4100             | 255 | 175 | 250      | 125          | 115 | 251 | 195  | 100 | 0.88                     | 84               | 4.7                                     |                                            |
| 280  | 14,200 | 28,400 | 3750             | 278 | 195 | 255      | 140          | 125 | 272 | 21.2 | 105 | 1.27                     | 104              | 5.2                                     |                                            |
| 305  | 20,000 | 40,000 | 3450             | 302 | 217 | 280      | 155          | 135 | 296 | 24.4 | 115 | 2.10                     | 139              | 5.7                                     |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speed could be limited by the weight and critical speeds of spacers. For higher speeds consult FEINNORD.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, D max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to for combined permissible misalignment.
- 7) The dimension H is required for dismantling the fitted bolts.

SERIES SBS6 | SIZE 135 - 346

with Brake Disc



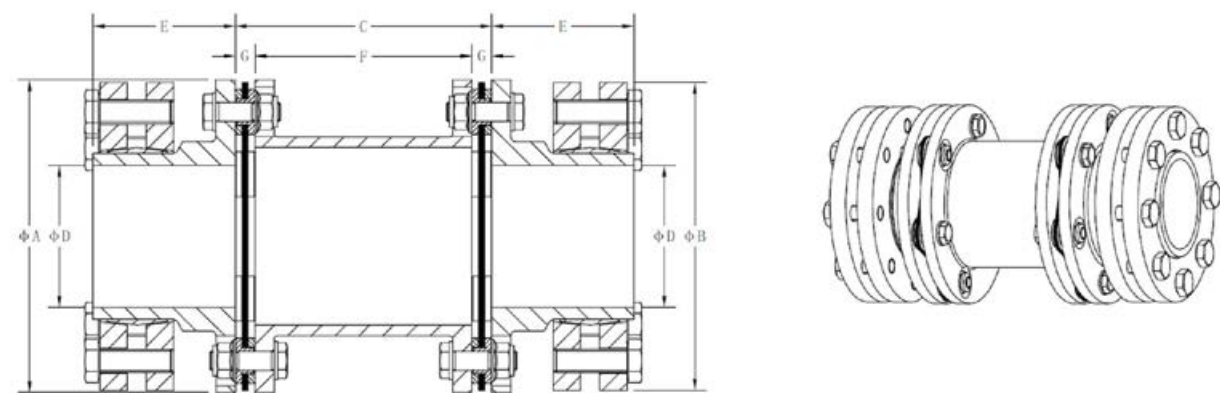
| Size | TN Nm<br>(1) | TP Nm  | N Max rpm<br>(2)     | A<br>(3)             | B   | C<br>(4)   | D Max<br>(5) | E   | L   | M          | N   | Inertia J<br>Kgm2<br>(6)  | Weight Kg<br>(6)  | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(7) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(7) |
|------|--------------|--------|----------------------|----------------------|-----|------------|--------------|-----|-----|------------|-----|---------------------------|-------------------|-----------------------------------------|--------------------------------------------|
| 135  | 1,100        | 2,200  | 3500<br>3100         | 315<br>355           | 132 | 105        | 65           | 60  | 85  | 80         | 89  | 0.241<br>0.381            | 24<br>29          | 2.6                                     | 1.5                                        |
| 160  | 2,000        | 4,000  | 3500<br>3100<br>2800 | 315<br>355<br>395    | 158 | 131        | 75           | 70  | 110 | 105        | 104 | 0.269<br>0.409<br>0.605   | 31<br>36<br>42    | 3.1                                     |                                            |
| 186  | 3,300        | 6,600  | 2800<br>2500<br>2200 | 395<br>445<br>495    | 185 | 148        | 87           | 80  | 110 | 105        | 121 | 0.653<br>0.997<br>1.478   | 49<br>57<br>66    | 3.7                                     |                                            |
| 205  | 4,600        | 9,200  | 2500<br>2200<br>2000 | 445<br>495<br>550    | 202 | 170        | 95           | 90  | 140 | 135        | 132 | 1.054<br>1.536<br>2.263   | 65<br>73<br>84    | 3.8                                     |                                            |
| 230  | 7,000        | 14,000 | 2200<br>2000<br>1800 | 495<br>550<br>625    | 228 | 187        | 107          | 100 | 170 | 165        | 150 | 1.665<br>2.393<br>3.805   | 87<br>98<br>114   | 4.2                                     | 1                                          |
| 256  | 10,200       | 20,400 | 1800<br>1600<br>1400 | 625<br>705<br>795    | 255 | 241        | 117          | 115 | 170 | 165        | 163 | 4.016<br>6.200<br>10.004  | 131<br>150<br>198 | 4.7                                     |                                            |
| 280  | 14,200       | 28,400 | 1800<br>1600<br>1400 | 625<br>705<br>795    | 278 | 263        | 131          | 125 | 210 | 205        | 183 | 4.297<br>6.480<br>10.004  | 153<br>173<br>198 | 5.2                                     |                                            |
| 305  | 20,000       | 40,000 | 1600<br>1400<br>1200 | 705<br>795<br>885    | 302 | 282        | 145          | 135 | 210 | 205        | 201 | 6.883<br>10.407<br>14.914 | 195<br>220<br>244 | 5.7                                     |                                            |
| 326  | 25,000       | 50,000 | 1600<br>1400<br>1100 | 705<br>795<br>955X40 | 325 | 302<br>307 | 156          | 145 | 250 | 245<br>240 | 219 | 7.389<br>10.914<br>31.883 | 219<br>244<br>368 | 6.5                                     |                                            |
| 346  | 31,000       | 62,000 | 1400<br>1100         | 795<br>955X40        | 345 | 321<br>326 | 165          | 155 | 250 | 245<br>240 | 230 | 11.477<br>32.445          | 268<br>393        | 6.9                                     |                                            |

Larger sizes are available on demand.

- (1) For coupling selection, apply corresponding service factor (SF=2 minimum)
- (2) Values for St-52.3 disc material balanced to G 6.3 ISO 1940. Consult Feinnord for couplings operating at higher speeds.
- (3) D995mm brake disc's thickness: 40mm.
- (4) Dimension DBSE is the distance between shaft ends, and is a variable parameter.
- (5) Max. admissible bore for couplings with DIN 6885/1 keys. For other types of keys or connections please consult Feinnord.
- (6) Value of complete coupling with std. DBSE, D max., GD2 = 4J
- (7) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page 04 for combined permissible misalignment.

SERIES SSS6 | SIZE 92 - 510

with Shrink Disc



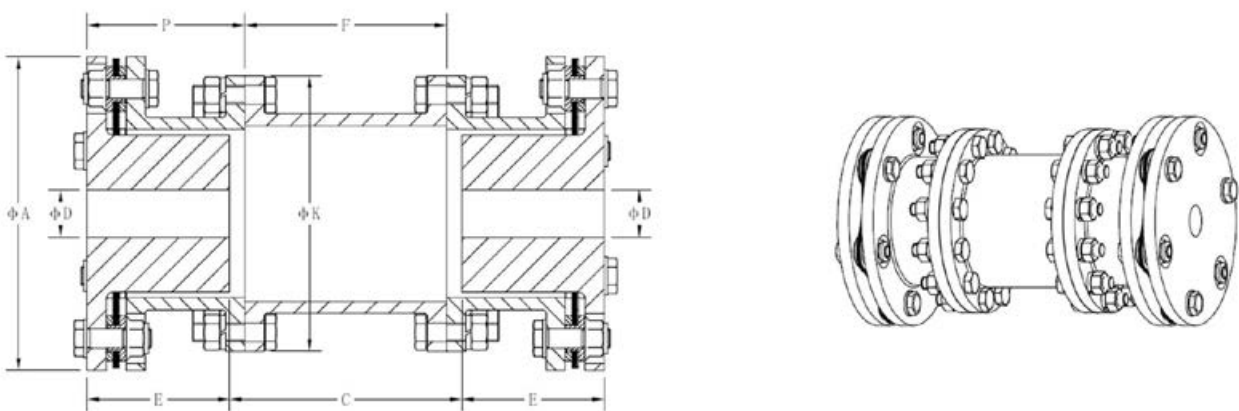
| Size | TN Nm<br>(1) | TP Nm   | N Max rpm<br>unbalanced<br>(2) | A   | B   | C<br>(3) | D Min | D Max<br>(5) | E   | F   | G    | Inertia J<br>Kgm2<br>(6) | Weight Kg<br>(6) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(7) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(7) |
|------|--------------|---------|--------------------------------|-----|-----|----------|-------|--------------|-----|-----|------|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 92   | 240          | 480     | 11600                          | 90  | 90  | 60       | 25    | 42           | 40  | 45  | 7.5  | 0.004                    | 3.2              | 1.5                                     | 1.5                                        |
| 112  | 575          | 1,150   | 9500                           | 110 | 110 | 88       | 36    | 52           | 50  | 71  | 8.4  | 0.010                    | 5.7              | 2.1                                     |                                            |
| 135  | 1,100        | 2,200   | 7900                           | 132 | 145 | 108      | 46    | 70           | 60  | 91  | 8.4  | 0.028                    | 9.6              | 2.6                                     |                                            |
| 160  | 2,000        | 4,000   | 6600                           | 158 | 155 | 124      | 60    | 75           | 70  | 102 | 11.2 | 0.053                    | 15               | 3.1                                     |                                            |
| 186  | 3,300        | 6,600   | 5600                           | 185 | 185 | 140      | 66    | 85           | 80  | 112 | 14.0 | 0.130                    | 26               | 3.7                                     |                                            |
| 205  | 4,600        | 9,200   | 5150                           | 202 | 185 | 158      | 75    | 105          | 90  | 127 | 15.5 | 0.170                    | 30               | 3.8                                     | 1                                          |
| 230  | 7,000        | 14,000  | 4550                           | 228 | 220 | 174      | 85    | 125          | 100 | 139 | 17.5 | 0.310                    | 39               | 4.2                                     |                                            |
| 256  | 10,200       | 20,400  | 4100                           | 255 | 245 | 196      | 95    | 140          | 115 | 155 | 19.5 | 0.530                    | 55               | 4.7                                     |                                            |
| 280  | 14,200       | 28,400  | 3750                           | 278 | 260 | 218      | 105   | 145          | 125 | 176 | 21.2 | 0.810                    | 74               | 5.2                                     |                                            |
| 305  | 20,000       | 40,000  | 3450                           | 302 | 295 | 234      | 115   | 165          | 135 | 185 | 24.4 | 1.33                     | 97               | 5.7                                     |                                            |
| 326  | 25,000       | 50,000  | 3200                           | 325 | 315 | 254      | 123   | 175          | 145 | 202 | 26.0 | 1.92                     | 123              | 6.5                                     |                                            |
| 346  | 31,000       | 62,000  | 3000                           | 345 | 315 | 270      | 134   | 175          | 155 | 214 | 28.2 | 2.32                     | 142              | 6.9                                     |                                            |
| 382  | 42,300       | 84,600  | 2700                           | 380 | 370 | 296      | 144   | 215          | 170 | 232 | 32.0 | 4.39                     | 198              | 7.6                                     |                                            |
| 412  | 57,100       | 114,200 | 2500                           | 410 | 370 | 320      | 157   | 215          | 185 | 254 | 33.2 | 5.52                     | 235              | 8.2                                     |                                            |
| 445  | 73,500       | 147,000 | 2350                           | 440 | 395 | 334      | 167   | 235          | 195 | 261 | 36.4 | 7.61                     | 280              | 8.8                                     |                                            |
| 480  | 92,000       | 184,000 | 2200                           | 475 | 425 | 358      | 180   | 250          | 210 | 282 | 38.2 | 11.19                    | 356              | 9.5                                     |                                            |
| 510  | 117,000      | 234,000 | 2050                           | 505 | 460 | 394      | 196   | 270          | 230 | 310 | 42.0 | 16.22                    | 450              | 10.1                                    |                                            |

Larger sizes are available on demand.

- 1) Nominal Torque shrink disc connection included
- 2) Operating speed must be equal or less than permissible speed. For higher rotation speeds, please consult Feinnord.  
Permissible speeds could be limited by the weight and critical speeds of spacers.
- 3) Dimension DBSE is the distance between shafts ends and is a variable parameter.
- 4) Shafts must be machined with tolerance g6. For other tolerances consult Feinnord.
- 5) The minimum bore is given for Nominal Torque. Smaller bores are possible but transmitted torque is decreased. consult Feinnord.
- 6) Value of complete coupling and shrink discs with std. DBSE, d1 and d2 max., GD2=4J.
- 7) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.

SERIES SRM6 | SIZE 135 - 256

Reduced Moment



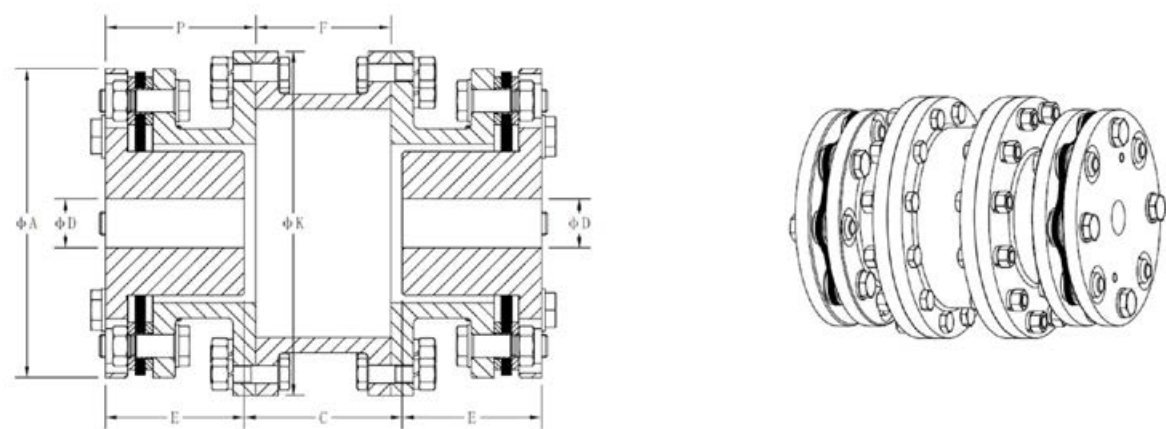
| Size | TN Nm  | TP Nm  | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | C<br>(3) | D Max<br>(4) | E   | F   | K   | P   | Inertia J<br>Kgm2<br>(5) | Weight Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|--------|--------|--------------------------------|------------------------------|-----|----------|--------------|-----|-----|-----|-----|--------------------------|------------------|-----------------------------------------|--------------------------------------------|
| 135  | 1,100  | 2,200  | 5840                           | 14600                        | 132 | 97       | 50           | 60  | 85  | 116 | 66  | 0.017                    | 7.8              | 2.6                                     | 1.5                                        |
| 160  | 2,000  | 4,000  | 4920                           | 12300                        | 158 | 132      | 60           | 70  | 110 | 152 | 81  | 0.056                    | 16               | 3.1                                     |                                            |
| 186  | 3,300  | 6,600  | 4200                           | 10500                        | 185 | 147      | 70           | 80  | 115 | 178 | 96  | 0.11                     | 24               | 3.7                                     |                                            |
| 205  | 4,600  | 9,200  | 3840                           | 9600                         | 202 | 165      | 75           | 90  | 135 | 213 | 110 | 0.23                     | 38               | 3.8                                     | 1                                          |
| 256  | 10,200 | 20,400 | 3080                           | 7700                         | 255 | 175      | 95           | 115 | 135 | 240 | 130 | 0.49                     | 57               | 4.7                                     |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shaft ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shaft with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, d1 and d2 max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.  
Overload bushings (SRM6XXXR) are available on demand.

SERIES SRM8 | SIZE 280 - 545

Reduced Moment



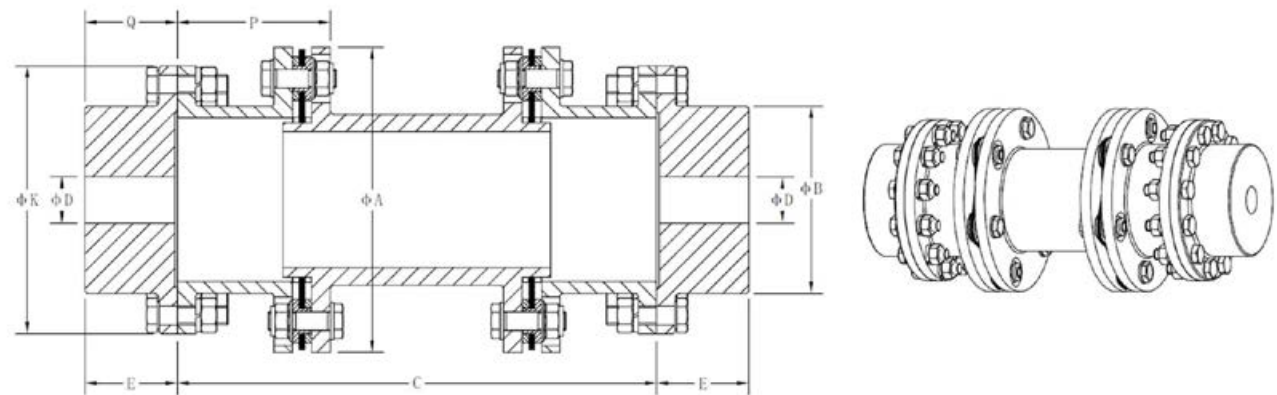
| Size | TN Nm  | TP Nm  | N Max rpm unbalanced (1) | N Max rpm balanced (2) | A   | C (3) | D Max (4) | E   | F   | K   | P   | Inertia J Kg·m <sup>2</sup> (5) | Weight Kg (5) | Axial Misalign. ±ΔKa mm (6) | Angle Misalign ±ΔKw Degree (6) |
|------|--------|--------|--------------------------|------------------------|-----|-------|-----------|-----|-----|-----|-----|---------------------------------|---------------|-----------------------------|--------------------------------|
| 280  | 20,000 | 40000  | 2800                     | 7000                   | 278 | 225   | 100       | 125 | 175 | 279 | 150 | 1.02                            | 91            | 3.7                         | 0.5                            |
| 305  | 30000  | 60000  | 2560                     | 6400                   | 302 | 225   | 110       | 135 | 175 | 318 | 160 | 1.64                            | 118           | 4.0                         |                                |
| 326  | 37000  | 74000  | 2400                     | 6000                   | 325 | 215   | 115       | 145 | 175 | 346 | 165 | 2.23                            | 134           | 4.3                         |                                |
| 346  | 46000  | 92000  | 2200                     | 5500                   | 345 | 280   | 125       | 155 | 220 | 389 | 185 | 4.00                            | 196           | 4.6                         |                                |
| 382  | 63000  | 126000 | 2040                     | 5100                   | 380 | 280   | 140       | 170 | 220 | 425 | 200 | 5.92                            | 245           | 5.0                         |                                |
| 412  | 86000  | 172000 | 1880                     | 4700                   | 410 | 210   | 150       | 185 | 180 | 457 | 200 | 6.87                            | 254           | 5.4                         |                                |
| 545  | 220000 | 440000 | 1440                     | 3600                   | 540 | 190   | 195       | 240 | 200 | 527 | 235 | 21.13                           | 508           | 7.2                         |                                |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shaft ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shaft with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, d1 and d2 max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- Overload bushings (SRM8XXXR) are available on demand.

SERIES SSZ6 | SIZE 135 - 256

Drop-Out with Floating Central Section



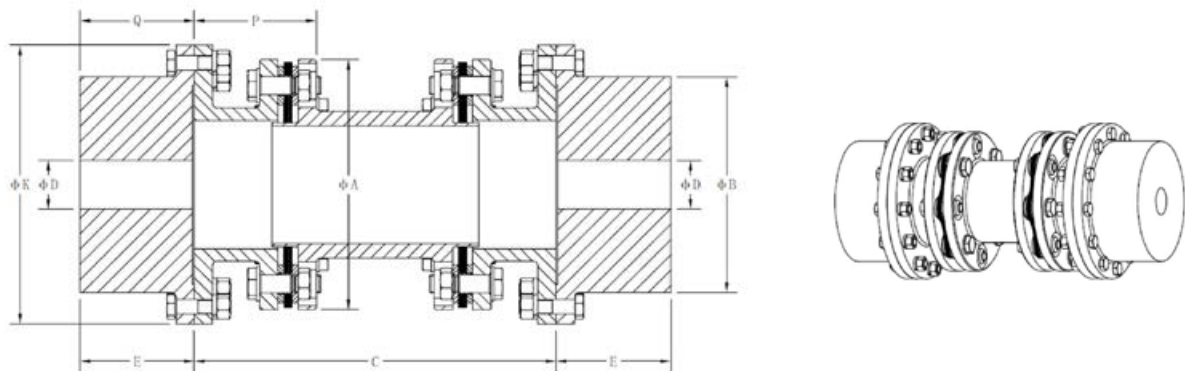
| Size | TN Nm  | TP Nm  | N Max rpm unbalanced (1) | N Max rpm balanced (2) | A   | B   | C (3) | D Max (4) | E  | K   | P   | Q    | Inertia J Kg·m <sup>2</sup> (5) | Weight Kg (5) | Axial Misalign. ±ΔKa mm (6) | Angle Misalign ±ΔKw Degree (6) |
|------|--------|--------|--------------------------|------------------------|-----|-----|-------|-----------|----|-----|-----|------|---------------------------------|---------------|-----------------------------|--------------------------------|
| 135  | 1,100  | 2,200  | 5840                     | 14600                  | 132 | 80  | 170   | 55        | 40 | 116 | 66  | 42.0 | 0.013                           | 5             | 2.6                         | 0.5                            |
| 160  | 2,000  | 4,000  | 4920                     | 12300                  | 158 | 100 | 225   | 70        | 47 | 152 | 81  | 49.5 | 0.039                           | 11            | 3.1                         |                                |
| 186  | 3,300  | 6,600  | 4200                     | 10500                  | 185 | 125 | 265   | 90        | 58 | 178 | 96  | 60.5 | 0.084                           | 17            | 3.7                         |                                |
| 205  | 4,600  | 9,200  | 3840                     | 9600                   | 202 | 148 | 300   | 105       | 74 | 213 | 110 | 76.5 | 0.15                            | 24            | 3.8                         | 1                              |
| 256  | 10,200 | 20,400 | 3080                     | 7700                   | 252 | 173 | 365   | 120       | 88 | 240 | 130 | 90.5 | 0.40                            | 42            | 4.7                         |                                |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shaft ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shaft with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, d1 and d2 max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- Overload bushings (SSZ8XXXR) are available on demand.

SERIES SSZ8 | SIZE 280 - 545

Drop-Out with Floating Central Section



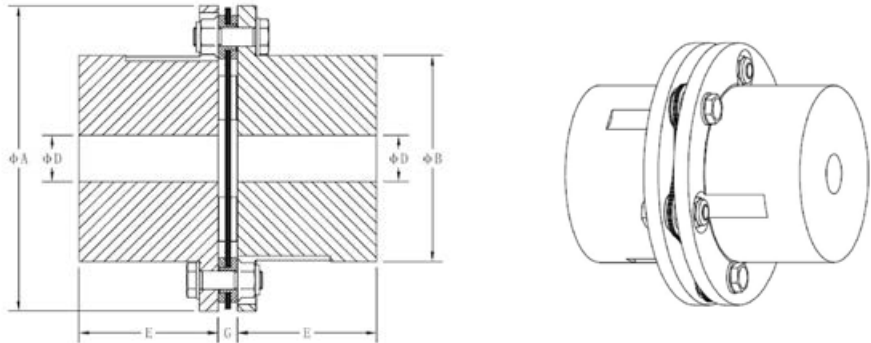
| Size | TN Nm  | TP Nm  | N Max rpm<br>unbalanced<br>(1) | N Max rpm<br>balanced<br>(2) | A   | B   | C<br>(3) | D Max<br>(4) | E   | K   | P   | Q   | Inertia J<br>Kgm2<br>(5) | Weight<br>Kg<br>(5) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(6) | Angle<br>Misalign<br>±ΔKw<br>Degree<br>(6) |
|------|--------|--------|--------------------------------|------------------------------|-----|-----|----------|--------------|-----|-----|-----|-----|--------------------------|---------------------|-----------------------------------------|--------------------------------------------|
| 280  | 20,000 | 40000  | 2800                           | 7000                         | 278 | 204 | 405      | 145          | 102 | 279 | 150 | 105 | 0.75                     | 67                  | 3.7                                     | 0.5                                        |
| 305  | 30000  | 60000  | 2560                           | 6400                         | 302 | 242 | 440      | 170          | 113 | 318 | 160 | 118 | 1.18                     | 86                  | 4.0                                     |                                            |
| 326  | 37000  | 74000  | 2400                           | 6000                         | 325 | 268 | 455      | 190          | 129 | 346 | 165 | 134 | 1.62                     | 102                 | 4.3                                     |                                            |
| 346  | 46000  | 92000  | 2200                           | 5500                         | 345 | 302 | 500      | 215          | 144 | 389 | 185 | 149 | 2.67                     | 139                 | 4.6                                     |                                            |
| 382  | 63000  | 126000 | 2040                           | 5100                         | 380 | 327 | 545      | 230          | 175 | 425 | 200 | 181 | 4.10                     | 179                 | 5.0                                     |                                            |
| 412  | 86000  | 172000 | 1880                           | 4700                         | 410 | 354 | 555      | 250          | 188 | 457 | 200 | 194 | 5.15                     | 199                 | 5.4                                     |                                            |
| 545  | 220000 | 440000 | 1440                           | 3600                         | 540 | 410 | 680      | 290          | 221 | 527 | 235 | 227 | 17.56                    | 419                 | 7.2                                     |                                            |

Larger sizes are available on demand.

- 1) Operating speed must be equal or less than permissible speed. Permissible speeds could be limited by the weight and critical speeds of spacers.
- 2) Max. rotation speeds considered in special mat. and/or execution. For higher rotation speeds, please consult Feinnord.
- 3) Dimension DBSE is the distance between shaft ends and is a variable parameter.
- 4) The maximum bores shown are for cylindrical or taper shaft with keys. For other type of connections consult Feinnord.
- 5) Value of complete coupling with DBSE min, d1 and d2 max., GD2 =4J.
- 6) The value for axial misalignment is given for a complete 2 disc pack. Angular misalignment is given per pack. Refer to page04 for combined permissible misalignment.
- Overload bushings (SSZ8XXXR) are available on demand.

SERIES SMP6 | SIZE 92 - 510

Single Pack

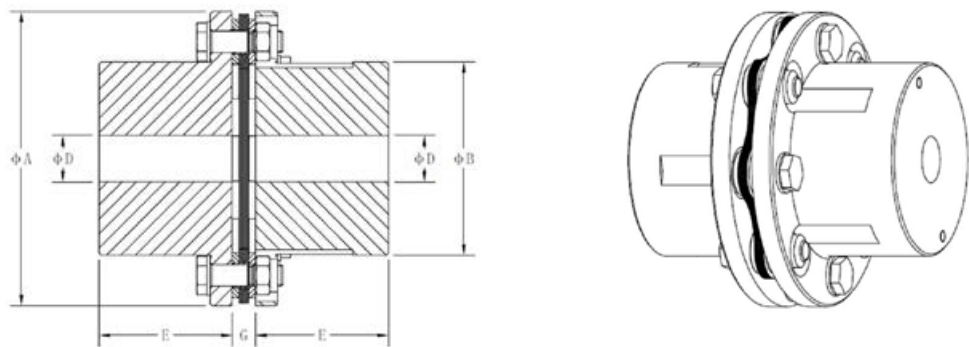


| Size | TN Nm   | TP Nm   | A   | B   | D Max (1) | E   | G    | Inertia J Kgm2<br>(2) | Weight Kg<br>(2) | Axial<br>Misalign.<br>±ΔKa<br>mm<br>(3) | Angle Misalign<br>±ΔKw<br>Degree<br>(3) |
|------|---------|---------|-----|-----|-----------|-----|------|-----------------------|------------------|-----------------------------------------|-----------------------------------------|
| 92   | 240     | 480     | 90  | 58  | 41        | 40  | 7.5  | 0.001                 | 1.4              | 0.75                                    | 1.5                                     |
| 112  | 575     | 1,150   | 110 | 70  | 50        | 50  | 8.4  | 0.003                 | 2.3              | 1.0                                     |                                         |
| 135  | 1,100   | 2,200   | 132 | 89  | 65        | 60  | 8.4  | 0.007                 | 3.8              | 1.3                                     |                                         |
| 160  | 2,000   | 4,000   | 158 | 104 | 75        | 70  | 11.2 | 0.017                 | 6.4              | 1.5                                     |                                         |
| 186  | 3,300   | 6,600   | 185 | 121 | 87        | 80  | 14.0 | 0.037                 | 9.9              | 1.8                                     |                                         |
| 205  | 4,600   | 9,200   | 202 | 132 | 95        | 90  | 15.5 | 0.061                 | 14               | 1.9                                     |                                         |
| 230  | 7,000   | 14,000  | 228 | 150 | 107       | 100 | 17.5 | 0.11                  | 19               | 2.1                                     | 1                                       |
| 256  | 10,200  | 20,400  | 255 | 163 | 117       | 115 | 20.5 | 0.21                  | 29               | 2.3                                     |                                         |
| 280  | 14,200  | 28,400  | 278 | 183 | 131       | 125 | 21.2 | 0.32                  | 37               | 2.6                                     |                                         |
| 305  | 20,000  | 40,000  | 302 | 201 | 145       | 135 | 24.4 | 0.50                  | 49               | 2.8                                     |                                         |
| 326  | 25,000  | 50,000  | 325 | 219 | 156       | 145 | 26.0 | 0.71                  | 61               | 3.2                                     |                                         |
| 346  | 31,000  | 62,000  | 345 | 230 | 165       | 155 | 28.2 | 0.98                  | 73               | 3.4                                     |                                         |
| 382  | 42,300  | 84,600  | 380 | 249 | 178       | 170 | 32.0 | 1.57                  | 96               | 3.8                                     |                                         |
| 412  | 57,100  | 114,200 | 410 | 269 | 192       | 185 | 33.2 | 2.33                  | 124              | 4.1                                     |                                         |
| 445  | 73,500  | 147,000 | 440 | 289 | 206       | 195 | 36.4 | 3.32                  | 151              | 4.4                                     |                                         |
| 480  | 92,000  | 184,000 | 475 | 309 | 220       | 210 | 38.2 | 4.89                  | 191              | 4.7                                     |                                         |
| 510  | 117,000 | 234,000 | 505 | 327 | 233       | 230 | 42.0 | 6.69                  | 233              | 5.0                                     |                                         |

Larger sizes are available on demand.

- 1) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 2) Value of complete coupling with DBSE min, d1 and d2 max., GD2 =4J.
- 3) This configuration allows only stated axial and angular misalignments. RADIAL MISALIGNMENTS ARE NOT ADMISSIBLE.
- 4) Overload bushings (SMP6XXXR) are available on demand.

Single Pack



| Size | TN Nm  | TP Nm   | A   | B   | D Max (4) | E   | G    | Inertia J Kgm2 (5) | Weight Kg (5) | Axial Misalign. ±ΔKa mm (6) | Angle Misalign ±ΔKw Degree (6) |
|------|--------|---------|-----|-----|-----------|-----|------|--------------------|---------------|-----------------------------|--------------------------------|
| 280  | 20,000 | 40000   | 278 | 183 | 125       | 131 | 21.2 | 0.348              | 39            | 1.8                         | 0.5                            |
| 305  | 30000  | 60000   | 302 | 201 | 135       | 145 | 24.4 | 0.540              | 51            | 2.0                         |                                |
| 326  | 37000  | 74000   | 325 | 219 | 145       | 156 | 26.0 | 0.756              | 63            | 2.1                         |                                |
| 346  | 46000  | 92000   | 345 | 230 | 155       | 165 | 28.2 | 1.03               | 75            | 2.3                         |                                |
| 382  | 63000  | 126000  | 380 | 249 | 170       | 178 | 32.0 | 1.68               | 101           | 2.5                         |                                |
| 412  | 86000  | 172000  | 410 | 269 | 185       | 192 | 33.2 | 2.51               | 130           | 2.7                         |                                |
| 445  | 110000 | 220000  | 440 | 289 | 195       | 206 | 36.4 | 3.59               | 158           | 2.9                         |                                |
| 480  | 138000 | 276000  | 475 | 309 | 210       | 220 | 38.2 | 5.25               | 200           | 3.1                         |                                |
| 510  | 175000 | 350000  | 505 | 327 | 230       | 233 | 42.0 | 7.22               | 245           | 3.3                         |                                |
| 545  | 220000 | 440000  | 540 | 330 | 240       | 235 | 46.0 | 8.67               | 272           | 3.6                         |                                |
| 575  | 259000 | 518000  | 570 | 350 | 250       | 250 | 51.6 | 11.5               | 320           | 3.8                         |                                |
| 610  | 315000 | 630000  | 605 | 370 | 265       | 265 | 53.2 | 15.4               | 381           | 3.9                         |                                |
| 640  | 383000 | 766000  | 635 | 385 | 280       | 275 | 60.8 | 20.4               | 446           | 4.1                         |                                |
| 680  | 454000 | 908000  | 675 | 410 | 300       | 290 | 65.2 | 27.9               | 541           | 4.2                         |                                |
| 700  | 528000 | 1056000 | 700 | 420 | 315       | 300 | 68.8 | 33.9               | 610           | 4.4                         |                                |
| 735  | 608000 | 1216000 | 730 | 440 | 330       | 315 | 71.2 | 41.3               | 685           | 4.6                         |                                |
| 766  | 700000 | 1400000 | 760 | 460 | 350       | 330 | 72.8 | 52.1               | 792           | 4.8                         |                                |

Larger sizes are available on demand.

- 1) The maximum bores shown are for cylindrical or taper shafts with keys. For other type of connections consult Feinnord.
- 2) Value of complete coupling with DBSE min, d1 and d2 max., GD2 =4J.
- 3) This configuration allows only stated axial and angular misalignments. RADIAL MISALIGNMENTS ARE NOT ADMISSIBLE.
- 4) Overload bushings (SMP8XXR) are available on demand.

3. APPENDIX

a) TYPE INTERCHANGE

| FEINNORD |        |
|----------|--------|
| NEW      | OLD    |
| SSD6     | CX-6   |
| SDR6     | DCCA-6 |
| SER6     | DCCB-6 |
| SAS6     | DO-6   |
| SSS6     | DXAC-6 |
| SRM6     | DCCX-6 |
| SSZ6     | DCXX-6 |
| SMP6     | DS-6   |
| SSD8     | DCX-8  |
| SRM8     | DCCX-8 |
| SSZ8     | DCXX-8 |
| SMP8     | DS-8   |

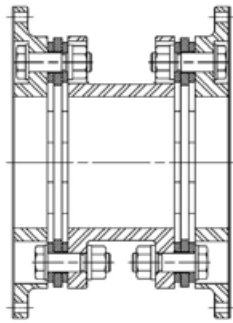
b) RECOMMENDED FITS

The following recommendations, according to ISO, are given for shaft/bores fits

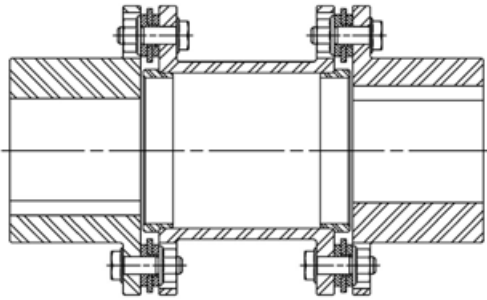
| Fitting                                   | Shaft Tolerance | Bore Tolerance |
|-------------------------------------------|-----------------|----------------|
| Interference Fitting with Parallel Keyway | h6              | S7             |
|                                           | k6              | M7             |
|                                           | m6              | K7             |
|                                           | n6              | J7             |
|                                           | p6              | H7             |
| Shrink Fitting without Parallel Keyway    | u6              | H7             |
|                                           | v6              |                |
|                                           | x6              |                |

\* The stresses on the hub must be checked.

c) MORE DESIGNS



SX1 with Flanges Connection



SX2 with Axial Limited Floating



In this vibrant production space, we constantly explore and innovate, dedicated to providing global customers with higher-quality and more efficient couplings. Our factory is not only a place for production but also a symbol of quality and a driving force for continuous progress in the industrial transmission field. Choosing our factory's couplings means choosing outstanding quality and reliable assurance, and working together to create a bright future for industrial development.



Our couplings, manufactured with advanced techniques and high-quality materials, possess an outstanding torque transmission capacity. They can stably deliver power in both heavy-duty machinery under high loads and precision instruments with extremely high accuracy requirements, ensuring continuous operation of the equipment and significantly reducing downtime losses caused by poor power transmission. Their superior shock absorption and vibration damping performance effectively reduce the vibration and impact generated during mechanical operation, not only extending the service life of the equipment but also making the operation process smooth and quiet, creating a more comfortable working environment for operators.

In terms of design, our couplings ingeniously integrate innovative concepts, featuring outstanding axial and radial compensation capabilities. They can easily handle the misalignment between shafts caused by installation errors, thermal expansion and contraction, and other factors, significantly enhancing the reliability and adaptability of the system. Even in harsh working conditions such as high temperatures, high humidity, and strong corrosive environments, they can still maintain stable performance, making them a trusted choice in many industries.

APPENDIX

a) General Application Data for Selection and Design

Customer \_\_\_\_\_

Contact Name \_\_\_\_\_

Type of Mill \_\_\_\_\_

Email \_\_\_\_\_

Date \_\_\_\_\_

Inquiry No \_\_\_\_\_

No. of Units \_\_\_\_\_

Phone \_\_\_\_\_

No. of Pages \_\_\_\_\_

Motor Power \_\_\_\_\_

Motor RPM \_\_\_\_\_

Required Service Factor \_\_\_\_\_

Operating RPM \_\_\_\_\_

Reducer Ratio \_\_\_\_\_

Normal Operating Torque \_\_\_\_\_

DBSE(\*) minimum \_\_\_\_\_

DBSE(\*) maximum \_\_\_\_\_

Operating angle \_\_\_\_\_

Diameter Limitations \_\_\_\_\_

Operating Offset \_\_\_\_\_

No Load Angle \_\_\_\_\_

No Load Offset \_\_\_\_\_

Horizontal Application \_\_\_\_\_

Vertical Application \_\_\_\_\_

Drive End Bore (DxL)(\*\*) \_\_\_\_\_

Drive End Keyway \_\_\_\_\_

Driven End Bore (DxL)(\*\*) \_\_\_\_\_

Driven End Keyway \_\_\_\_\_

\* DBSE: Distance Between Shaft Ends.

\*\* DxL: Diameter x Length

Comments or special conditions such as: ambient temperature, atmospheric, etc.:

Note: if bolting to existing drive and driven flanges, please specify flange diameter, pilot diameter, bolt circle, number of bolts and bolt size

CAUTION: This product will be selected based on the information supplied to Feinnord by the purchaser. Complete and accurate information will help to minimize errors and misapplications. Further, it is the responsibility of the purchaser to assure the interface connection between couplings and connected equipment (flanges, bolting, keys, hydraulic fits, etc.), and capable of handling anticipated loads. Feinnord will not be responsible for errors due to inaccurate or incomplete information supplied to Feinnord.

Space provided below for sketch