

## Metal Disc Couplings

**SERVOFLEX**Ultra-high  
stiffness

Low inertia



High response



No backlash

|                            |                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------|
| Max. rated torque [N·m]    | 8000                                                                                       |
| Bore ranges [mm]           | φ 3 ~ 115                                                                                  |
| Operating temperature [°C] | -30 ~ 120(100)                                                                             |
| Drive                      | Servomotor/stepper motor                                                                   |
| Applications               | Machine tool / semiconductor manufacturing equipment /<br>printing press / packing machine |

**High-stiffness and Low-inertia Servomotor Couplings**

Miki Pully metal disc couplings are designed for high-speed, high-precision and ultra-precise control of servomotor connection positioning. They achieve high stiffness, high torque, low inertia, high response speed and in the same time they are flexible enough to cover all shaft connection misalignments. Due to the fact of being backlash free, rotations are transferred directly without any delay. Miki Pulley offers various models with special characteristics as single or double element and a wide range of connections.

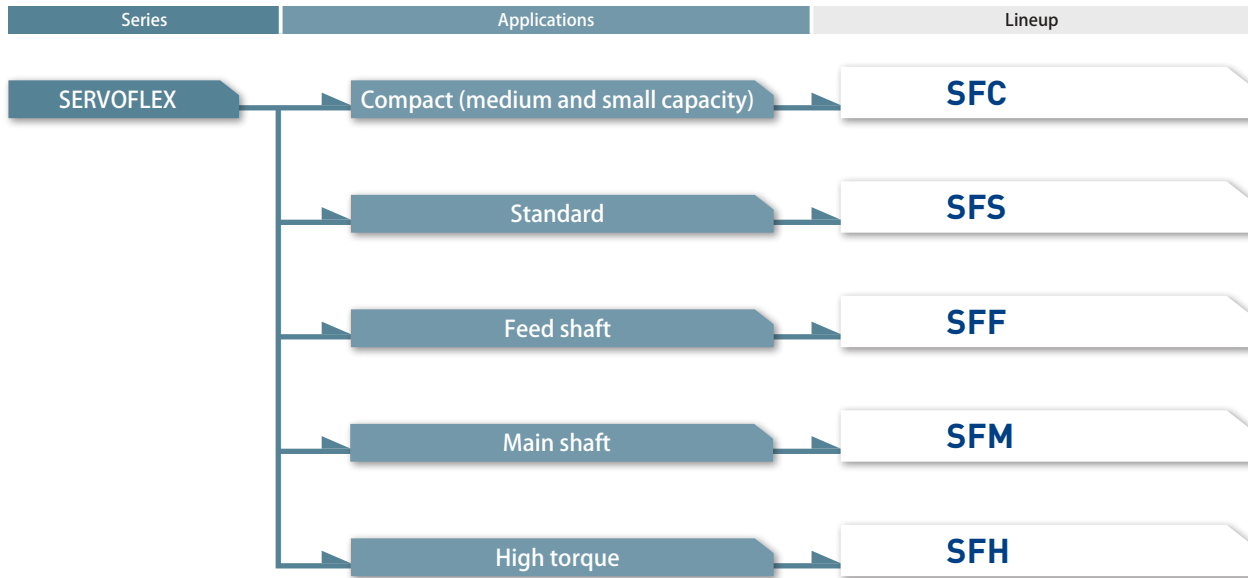


## Available Models

### COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS



### SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
|                              | Rigid Couplings<br>STK                     |
| Rubber and Plastic Couplings | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

## Model Selection

| Model type | Rated torque [N · m] |   |           |     |             |       | High stiffness | Low inertia | Mountability | Mounting accuracy | High-speed rotation | Material       | Operating temperature [°C] |
|------------|----------------------|---|-----------|-----|-------------|-------|----------------|-------------|--------------|-------------------|---------------------|----------------|----------------------------|
|            | 0.1                  | 1 | 10        | 100 | 1000        | 10000 |                |             |              |                   |                     |                |                            |
| SFC        | 0.25 ~ 250           |   |           |     |             |       | ◎              | ●           | ●            | ◎                 | ◎                   | Aluminum alloy | -30 ~ 100                  |
| SFS        |                      |   | 20 ~ 800  |     |             |       | ◎              | ◎           | △            | ○                 | ○                   | Steel          | -30 ~ 120                  |
| SFF        |                      |   | 8 ~ 1000  |     |             |       | ●              | ●           | ◎            | ●                 | ◎                   | Steel          | -30 ~ 120                  |
| SFM        |                      |   | 60 ~ 1000 |     |             |       | ●              | ◎           | ◎            | ●                 | ●                   | Steel          | -30 ~ 120                  |
| SFH        |                      |   |           |     | 1000 ~ 8000 |       | ●              | ◎           | △            | ○                 | ○                   | Steel          | -30 ~ 120                  |

• Symbols in the table indicate four levels of adaptability in order of ●◎○△ with ● showing the highest level of adaptability and △ showing the lowest level. (Adaptability high ←●◎○△→ low)

### MODELS

SFC

SFS

SFF

SFM

SFH

## Product Lineup

### SFC



Applications: NC lathe, machining center, chip mounter, actuator, SCARA robot, semiconductor manufacturing equipment

|                   |       |          |
|-------------------|-------|----------|
| Max. rated torque | [N·m] | 250      |
| Bore ranges       | [mm]  | φ 3 ~ 45 |

#### High Stiffness and Ultra-low Inertia

Small- and medium-capacity model, which is made of a high-strength aluminum alloy and whose outer hub diameter is linked to the shaft diameter to achieve a ultra-low inertia ideal for high-speed rotation. Three different shapes are available depending on the combination of bore diameters you use.

TYPE A



TYPE B



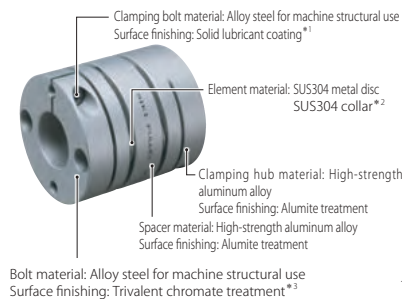
TYPE C



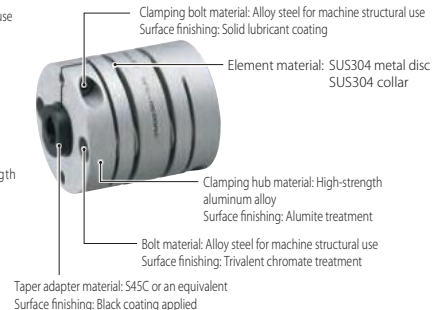
#### SFC(SA2)



#### SFC(DA2)



#### SFC(SA2/DA2)BC



\*1 For surface processing of the clamping bolts, black coating is applied only for #002.

\*2 The collar material in the marked area is S45C in sizes #080 to #100, and the surface finishing is trivalent chrome treatment.

\*3 The bolt surface finishing in the marked area is anti-rust coating in sizes #080 to #100.

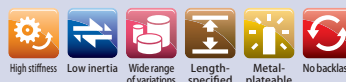
#### Simple and Reliable Connection

A single clamping method is used for connection to the shaft. The clamping hub is shock and vibration proof, enabling reliable connection and helping to substantially reduce mounting time. A special jig is used for centering to achieve an extremely high concentricity.

#### Wide Variety of Options

A wide variety of options such as a tapered shaft, length-specified special order, and keyway milling application are available. You can combine options to meet your desired specifications.

### SFS



Applications: Machine tool, printing press, packing machine, coater/coating machine

|                   |       |          |
|-------------------|-------|----------|
| Max. rated torque | [N·m] | 800      |
| Bore ranges       | [mm]  | φ 8 ~ 60 |

#### Wide Variations

SERVOFLEX standard model. 18 types with different numbers of elements, distances between shafts, shaft connection methods, etc. are available. You can select the electroless nickel plating for the pilot bore and key/set screw.

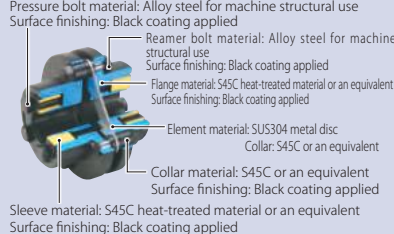
#### Parts Delivery

You can order the parts of the coupling to be delivered instead of an assembled coupling, so you can use this coupling in a design in which the assembled coupling could not be mounted. You can also order an assembled coupling to be delivered or combine different types of hubs.

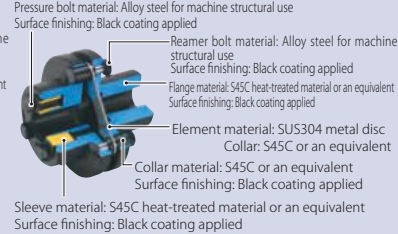
#### SFS(S)



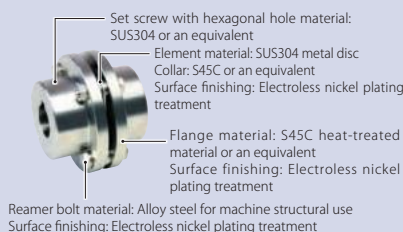
#### SFS(S) □ M- □ M



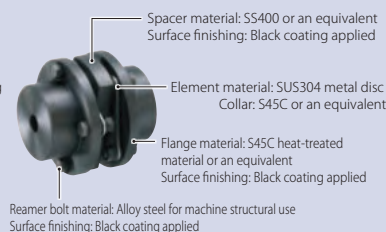
#### SFS(S) □ M- □ C



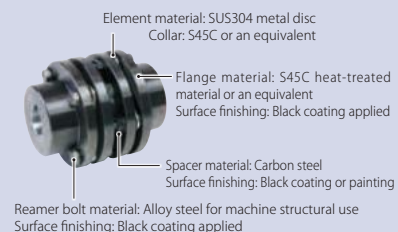
#### SFS(S-C)



#### SFS(W)



#### SFS(G)

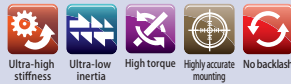


## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SFF



Applications: NC lathe, machining center, chip mounter, electrical discharge machine

|                   |       |          |
|-------------------|-------|----------|
| Max. rated torque | [N·m] | 1000     |
| Bore ranges       | [mm]  | φ 8 ~ 80 |

## Ultra-high Stiffness and Ultra-low Inertia

Ultrahigh torsional stiffness, achieving 1.5 times the rated torque of the current model and low inertia.

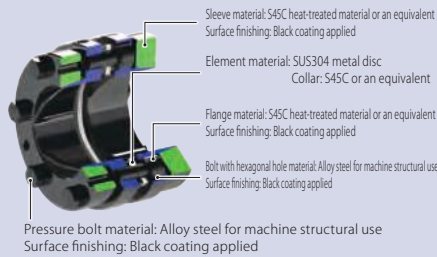
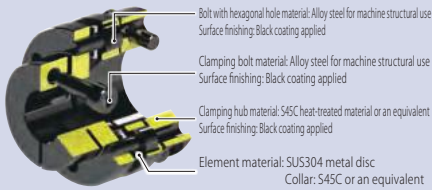
## High-precision Clamping Connection

The number of mounting bolts has been reduced substantially. You can remarkably reduce mounting time.

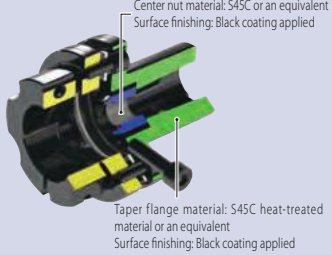
## Frictional Coupling for Large Diameters

This model supports frictional coupling for larger-diameter shafts than the previous models.

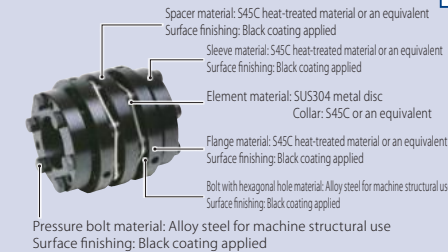
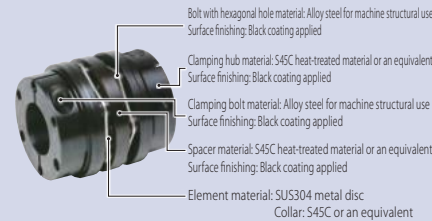
## SFF(SS)



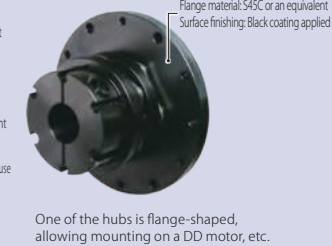
## Tapered shaft



## SFF(DS)



## Flange-mounted



## SFM



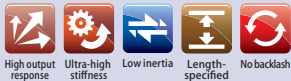
Application: Machine tool main shaft

|                   |       |           |
|-------------------|-------|-----------|
| Max. rated torque | [N·m] | 1000      |
| Bore ranges       | [mm]  | φ 12 ~ 80 |

## SFM(SS)



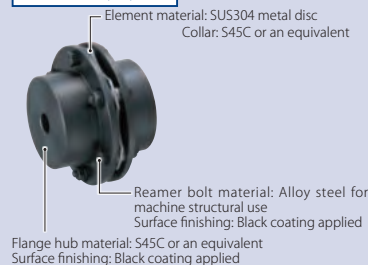
## SFH



Applications: Double column machining center, printing press, testing machinery, wind turbine generator

|                   |       |            |
|-------------------|-------|------------|
| Max. rated torque | [N·m] | 8000       |
| Bore ranges       | [mm]  | φ 22 ~ 115 |

## SFH(S)



## SFH(G) □ K- □ K



## Max. Rated Torque 8000 N·m

This model was developed to transmit a large torque, has an extremely high torsional stiffness, and enables precise shaft rotation and ultra-precise control.

## Total Length Can Be Specified

The total length can be specified for a type that connects the middle of the element using a floating shaft.

## SERIES

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|------------------------------|--------------------------------------------|
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|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

## MODELS

SFC

SFS

SFF

SFM

SFH



# SFC(SA2) Types Single Element Type

## Specifications

| Model      | Shape type | Rated torque [N·m] | Misalignment  |             |            | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Axial stiffness [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] |
|------------|------------|--------------------|---------------|-------------|------------|------------------------------------------|-------------------------------|------------------------|----------------------------------------|-----------|
|            |            |                    | Parallel [mm] | Angular [°] | Axial [mm] |                                          |                               |                        |                                        |           |
| SFC-002SA2 | C          | 0.25               | 0.01          | 0.5         | ± 0.04     | 10000                                    | 190                           | 34                     | $0.06 \times 10^{-6}$                  | 0.003     |
| SFC-005SA2 | C          | 0.6                | 0.02          | 0.5         | ± 0.05     | 10000                                    | 500                           | 140                    | $0.26 \times 10^{-6}$                  | 0.007     |
| SFC-010SA2 | C          | 1                  | 0.02          | 1           | ± 0.1      | 10000                                    | 1400                          | 140                    | $0.58 \times 10^{-6}$                  | 0.011     |
| SFC-020SA2 | C          | 2                  | 0.02          | 1           | ± 0.15     | 10000                                    | 3700                          | 64                     | $2.39 \times 10^{-6}$                  | 0.025     |
| SFC-025SA2 | C          | 4                  | 0.02          | 1           | ± 0.19     | 10000                                    | 5600                          | 60                     | $3.67 \times 10^{-6}$                  | 0.029     |
| SFC-030SA2 | A          | 5                  | 0.02          | 1           | ± 0.2      | 10000                                    | 8000                          | 64                     | $4.07 \times 10^{-6}$                  | 0.034     |
|            | B          |                    |               |             |            |                                          |                               |                        | $6.09 \times 10^{-6}$                  | 0.041     |
|            | C          |                    |               |             |            |                                          |                               |                        | $8.20 \times 10^{-6}$                  | 0.049     |
| SFC-035SA2 | C          | 10                 | 0.02          | 1           | ± 0.25     | 10000                                    | 18000                         | 112                    | $18.44 \times 10^{-6}$                 | 0.082     |
| SFC-040SA2 | A          | 12                 | 0.02          | 1           | ± 0.3      | 10000                                    | 20000                         | 80                     | $16.71 \times 10^{-6}$                 | 0.077     |
|            | B          |                    |               |             |            |                                          |                               |                        | $22.55 \times 10^{-6}$                 | 0.085     |
|            | C          |                    |               |             |            |                                          |                               |                        | $29.25 \times 10^{-6}$                 | 0.100     |
| SFC-050SA2 | A          | 25                 | 0.02          | 1           | ± 0.4      | 10000                                    | 32000                         | 48                     | $55.71 \times 10^{-6}$                 | 0.159     |
|            | B          |                    |               |             |            |                                          |                               |                        | $76.26 \times 10^{-6}$                 | 0.177     |
|            | C          |                    |               |             |            |                                          |                               |                        | $99.03 \times 10^{-6}$                 | 0.206     |
| SFC-055SA2 | C          | 40                 | 0.02          | 1           | ± 0.42     | 10000                                    | 50000                         | 43                     | $188.0 \times 10^{-6}$                 | 0.314     |
| SFC-060SA2 | A          | 60                 | 0.02          | 1           | ± 0.45     | 10000                                    | 70000                         | 76.4                   | $145.9 \times 10^{-6}$                 | 0.283     |
|            | B          |                    |               |             |            |                                          |                               |                        | $205.0 \times 10^{-6}$                 | 0.326     |
|            | C          |                    |               |             |            |                                          |                               |                        | $268.6 \times 10^{-6}$                 | 0.385     |
| SFC-080SA2 | C          | 100                | 0.02          | 1           | ± 0.55     | 10000                                    | 140000                        | 128                    | $710.6 \times 10^{-6}$                 | 0.708     |
| SFC-090SA2 | C          | 180                | 0.02          | 1           | ± 0.65     | 10000                                    | 100000                        | 108                    | $1236 \times 10^{-6}$                  | 0.946     |
| SFC-100SA2 | C          | 250                | 0.02          | 1           | ± 0.74     | 10000                                    | 120000                        | 111                    | $1891 \times 10^{-6}$                  | 1.202     |

• The rated torque of the coupling may be limited for bore diameters.

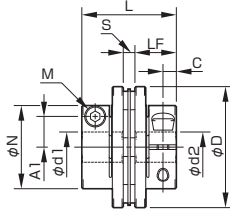
• Torsional stiffness values given are measured values for the flexible element alone.

• Higher rpm possible with balancing.

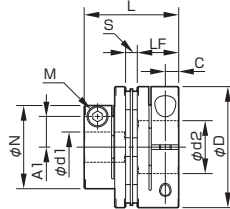
• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions

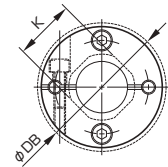
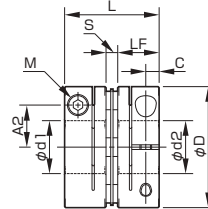
■ TYPE A



■ TYPE B



■ TYPE C



| Model      | Shape type | d1 [mm] |      | d2 [mm] |      | D [mm] | DB [mm] | N [mm] | L [mm] | LF [mm] | S [mm] | A1 [mm] | A2 [mm] | C [mm] | K [mm] | M Quantity – Nominal dia. | Tightening torque [N·m] |
|------------|------------|---------|------|---------|------|--------|---------|--------|--------|---------|--------|---------|---------|--------|--------|---------------------------|-------------------------|
|            |            | Min.    | Max. | Min.    | Max. |        |         |        |        |         |        |         |         |        |        |                           |                         |
| SFC-002SA2 | C          | 3       | 5    | 3       | 5    | 12     | 12.4    | —      | 12.35  | 5.9     | 0.55   | —       | 3.7     | 1.9    | 5.6    | 1-M1.6                    | 0.23 ~ 0.28             |
| SFC-005SA2 | C          | 3       | 6    | 3       | 6    | 16     | —       | —      | 16.7   | 7.85    | 1      | —       | 4.8     | 2.5    | 6.5    | 1-M2                      | 0.4 ~ 0.5               |
| SFC-010SA2 | C          | 3       | 8    | 3       | 8    | 19     | —       | —      | 19.35  | 9.15    | 1.05   | —       | 5.8 (6) | 3.15   | 8.5    | 1-M2.5 (M2)               | 1.0 ~ 1.1 (0.4 ~ 0.5)   |
| SFC-020SA2 | C          | 4       | 10   | 4       | 11   | 26     | —       | —      | 23.15  | 10.75   | 1.65   | —       | 9.5     | 3.3    | 10.6   | 1-M2.5                    | 1.0 ~ 1.1               |
| SFC-025SA2 | C          | 5       | 14   | 5       | 14   | 29     | —       | —      | 23.4   | 10.75   | 1.9    | —       | 11      | 3.3    | 14.5   | 1-M2.5                    | 1.0 ~ 1.1               |
| SFC-030SA2 | A          | 5       | 10   | 5       | 10   | 34     | —       | 21.6   | 27.3   | 12.4    | 2.5    | 8       | —       | 3.75   | 14.5   | 1-M3                      | 1.5 ~ 1.9               |
|            | B          | 5       | 10   | Over 10 | 16   |        |         | 21.6   |        |         |        | 8       | 12.5    |        |        |                           |                         |
|            | C          | Over 10 | 14   | Over 10 | 16   |        |         | —      |        |         |        | —       | 12.5    |        |        |                           |                         |
| SFC-035SA2 | C          | 6       | 16   | 6       | 19   | 39     | —       | —      | 34     | 15.5    | 3      | —       | 14      | 4.5    | 17     | 1-M4                      | 3.4 ~ 4.1               |
| SFC-040SA2 | A          | 8       | 15   | 8       | 15   | 44     | —       | 29.6   | 34     | 15.5    | 3      | 11      | —       | 4.5    | 19.5   | 1-M4                      | 3.4 ~ 4.1               |
|            | B          | 8       | 15   | Over 15 | 24   |        |         | 29.6   |        |         |        | 11      | 17      |        |        |                           |                         |
|            | C          | Over 15 | 19   | Over 15 | 24   |        |         | —      |        |         |        | —       | 17      |        |        |                           |                         |
| SFC-050SA2 | A          | 8       | 19   | 8       | 19   | 56     | —       | 38     | 43.4   | 20.5    | 2.4    | 14.5    | —       | 6      | 26     | 1-M5                      | 7.0 ~ 8.5               |
|            | B          | 8       | 19   | Over 19 | 30   |        |         | 38     |        |         |        | 14.5    | 22      |        |        |                           |                         |
|            | C          | Over 19 | 25   | Over 19 | 30   |        |         | —      |        |         |        | —       | 22      |        |        |                           |                         |
| SFC-055SA2 | C          | 10      | 30   | 10      | 30   | 63     | —       | —      | 50.6   | 24      | 2.6    | —       | 23      | 7.75   | 31     | 1-M6                      | 14 ~ 15                 |
| SFC-060SA2 | A          | 11      | 24   | 11      | 24   | 68     | —       | 46     | 53.6   | 25.2    | 3.2    | 17.5    | —       | 7.75   | 31     | 1-M6                      | 14 ~ 15                 |
|            | B          | 11      | 24   | Over 24 | 35   |        |         | 46     |        |         |        | 17.5    | 26.5    |        |        |                           |                         |
|            | C          | Over 24 | 30   | Over 24 | 35   |        |         | —      |        |         |        | —       | 26.5    |        |        |                           |                         |
| SFC-080SA2 | C          | 18      | 35   | 18      | 40   | 82     | —       | —      | 68     | 30      | 8      | —       | 28      | 9      | 38     | 1-M8                      | 27 ~ 30                 |
| SFC-090SA2 | C          | 25      | 40   | 25      | 45   | 94     | —       | —      | 68.3   | 30      | 8.3    | —       | 34      | 9      | 42     | 1-M8                      | 27 ~ 30                 |
| SFC-100SA2 | C          | 32      | 45   | 32      | 45   | 104    | —       | —      | 69.8   | 30      | 9.8    | —       | 39      | 9      | 48     | 1-M8                      | 27 ~ 30                 |

•  $\phi DB$  = Interference radius of the screw head

• The figures in parentheses ( ) for the SFC-010 are the values when d1 or d2 is  $\phi 8$  mm.

COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

SERIES

|                              |                                                   |
|------------------------------|---------------------------------------------------|
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|                              | Oldham Couplings<br><b>KSK</b>                    |

MODELS

|            |  |
|------------|--|
| <b>SFC</b> |  |
| <b>SFS</b> |  |
| <b>SFF</b> |  |
| <b>SFM</b> |  |
| <b>SFH</b> |  |

## Standard Bore Diameter

|                                        |              | Standard (option) bore diameter, d1/d2 [mm] and related rated torque [N-m] |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|----------------------------------------|--------------|----------------------------------------------------------------------------|---|-----|-----|------|-----|-----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|---|---|
| Nominal bore diameter                  |              | 3                                                                          | 4 | 5   | 6   | 6.35 | 7   | 8   | 9  | 9.525 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35  | 38 | 40 | 42 | 45 |   |   |
| Shaft tolerance                        | h7 (h6 - g6) | B                                                                          | ● | ●   | ●   | ●    | ●   | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  |   |   |
|                                        | j6 (Option)  | J                                                                          |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    | ○  |    | ○  | ○  |    | ○  |    |    |     |    |    |    |    |   |   |
|                                        | k6 (Option)  | K                                                                          |   |     |     |      |     |     | ○  | ○     |    |    |    |    |    | ○  |    | ○  |    |    | ○  |    | ○  | ○  |    |    |    | ○   |    | ○  |    |    |   |   |
| Supported bore diameter for each model | SFC-002SA2   | d1                                                                         | ● | ●   | ●   |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           | ●                                                                          | ● | ●   |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-005SA2   | d1                                                                         | ● | ●   | ●   | ●    |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           | ●                                                                          | ● | ●   | ●   |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-010SA2   | d1                                                                         | ● | ●   | ●   | ●    | ●   | ●   | ●  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           | ●                                                                          | ● | ●   | ●   | ●    | ●   | ●   |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-020SA2   | d1                                                                         |   | ●   | ●   | ●    | ●   | ●   | ●  | ●     | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           |                                                                            | ● | ●   | ●   | ●    | ●   | ●   | ●  | ●     | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-025SA2   | d1                                                                         |   |     | 2.1 | ●    | ●   | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   | 2.1 | ●   | ●    | ●   | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-030SA2   | d1                                                                         |   |     | 2.8 | 3.4  | ●   | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   | 2.8 | 3.4 | ●    | ●   | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-035SA2   | d1                                                                         |   |     |     | 5    | 5   | 6.6 | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   |     | 5   | 5    | 6.6 | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-040SA2   | d1                                                                         |   |     |     |      |     | 9   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   |     |     |      | 9   | ●   | ●  | ●     | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |     |    |    |    |    |   |   |
|                                        | SFC-050SA2   | d1                                                                         |   |     |     |      |     | 18  | 20 | 22    | 22 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |     |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   |     |     |      | 18  | 20  | 22 | 22    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |     |    |    |    |    |   |   |
|                                        | SFC-055SA2   | d1                                                                         |   |     |     |      |     |     |    |       |    | 31 | 34 | 36 | 38 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   |     |     |      |     |     |    |       |    | 31 | 34 | 36 | 38 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |   |   |
|                                        | SFC-060SA2   | d1                                                                         |   |     |     |      |     |     |    |       |    |    | 50 | 51 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |   |   |
|                                        | d2           |                                                                            |   |     |     |      |     |     |    |       |    |    | 50 | 51 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  |    |    |   |   |
|                                        | SFC-080SA2   | d1                                                                         |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  |    |    |   |   |
|                                        | d2           |                                                                            |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  |   |   |
|                                        | SFC-090SA2   | d1                                                                         |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  |   |   |
|                                        | d2           |                                                                            |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  | ● |   |
|                                        | SFC-100SA2   | d1                                                                         |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 226 | ●  | ●  | ●  | ●  | ● | ● |
|                                        | d2           |                                                                            |   |     |     |      |     |     |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 226 | ●  | ●  | ●  | ●  | ● | ● |

- The shaft tolerance for standard bore diameter is h7 (h6 or g6); designation B. However, for a bore diameter of ø35, the shaft tolerance is  $\begin{smallmatrix} +0.010 \\ -0.025 \end{smallmatrix}$ .
- Shaft tolerances j6/k6: designations J/K are optional, and are only supported for bore diameters marked with ○.
- Bore diameters marked with ● or numbers are supported as the standard bore diameters. Please contact Miki Pulley regarding special arrangements which may be possible for other bore diameters.
- Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N-m].

### How to Place an Order

#### SFC-025SA2-10B-14K

Size ————  
Type ————  
SA2: Single element  
Aluminum alloy hub  
Bore diameter d1 (Small diameter) ————  
Bore diameter d2 (Large diameter) ————

Supported shaft tolerance  
B: h7(h6, g6) shaft  
J: j6 shaft (option)  
K: k6 shaft (option)

- For nominal bore diameter, select d1 (small diameter) – d2 (large diameter) in that order.
- If d1=d2 (same diameters), select B, J, and K in that order.

# SFC(DA2) Types Double Element Type

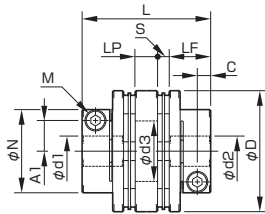
## Specifications

| Model      | Shape type | Rated torque [N·m] | Misalignment  |             |            | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Axial stiffness [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] |
|------------|------------|--------------------|---------------|-------------|------------|------------------------------------------|-------------------------------|------------------------|----------------------------------------|-----------|
|            |            |                    | Parallel [mm] | Angular [°] | Axial [mm] |                                          |                               |                        |                                        |           |
| SFC-002DA2 | C          | 0.25               | 0.03          | 1           | ± 0.08     | 10000                                    | 95                            | 17                     | 0.07 × 10 <sup>-6</sup>                | 0.004     |
| SFC-005DA2 | C          | 0.6                | 0.05          | 1           | ± 0.1      | 10000                                    | 250                           | 70                     | 0.37 × 10 <sup>-6</sup>                | 0.010     |
| SFC-010DA2 | C          | 1                  | 0.11          | 2           | ± 0.2      | 10000                                    | 700                           | 70                     | 0.80 × 10 <sup>-6</sup>                | 0.015     |
| SFC-020DA2 | C          | 2                  | 0.15          | 2           | ± 0.33     | 10000                                    | 1850                          | 32                     | 3.43 × 10 <sup>-6</sup>                | 0.035     |
| SFC-025DA2 | C          | 4                  | 0.16          | 2           | ± 0.38     | 10000                                    | 2800                          | 30                     | 5.26 × 10 <sup>-6</sup>                | 0.040     |
| SFC-030DA2 | A          | 5                  | 0.18          | 2           | ± 0.4      | 10000                                    | 4000                          | 32                     | 7.43 × 10 <sup>-6</sup>                | 0.054     |
|            | B          |                    |               |             |            |                                          |                               |                        | 9.45 × 10 <sup>-6</sup>                | 0.060     |
|            | C          |                    |               |             |            |                                          |                               |                        | 11.56 × 10 <sup>-6</sup>               | 0.068     |
| SFC-035DA2 | C          | 10                 | 0.24          | 2           | ± 0.5      | 10000                                    | 9000                          | 56                     | 26.93 × 10 <sup>-6</sup>               | 0.121     |
| SFC-040DA2 | A          | 12                 | 0.24          | 2           | ± 0.6      | 10000                                    | 10000                         | 40                     | 29.98 × 10 <sup>-6</sup>               | 0.124     |
|            | B          |                    |               |             |            |                                          |                               |                        | 35.82 × 10 <sup>-6</sup>               | 0.131     |
|            | C          |                    |               |             |            |                                          |                               |                        | 42.52 × 10 <sup>-6</sup>               | 0.146     |
| SFC-050DA2 | A          | 25                 | 0.28          | 2           | ± 0.8      | 10000                                    | 16000                         | 24                     | 98.34 × 10 <sup>-6</sup>               | 0.250     |
|            | B          |                    |               |             |            |                                          |                               |                        | 118.9 × 10 <sup>-6</sup>               | 0.268     |
|            | C          |                    |               |             |            |                                          |                               |                        | 141.7 × 10 <sup>-6</sup>               | 0.298     |
| SFC-055DA2 | C          | 40                 | 0.31          | 2           | ± 0.84     | 10000                                    | 25000                         | 21.5                   | 261.3 × 10 <sup>-6</sup>               | 0.459     |
| SFC-060DA2 | A          | 60                 | 0.34          | 2           | ± 0.9      | 10000                                    | 35000                         | 38.2                   | 256.6 × 10 <sup>-6</sup>               | 0.447     |
|            | B          |                    |               |             |            |                                          |                               |                        | 315.7 × 10 <sup>-6</sup>               | 0.489     |
|            | C          |                    |               |             |            |                                          |                               |                        | 379.3 × 10 <sup>-6</sup>               | 0.549     |
| SFC-080DA2 | C          | 100                | 0.52          | 2           | ± 1.10     | 10000                                    | 70000                         | 64                     | 1039 × 10 <sup>-6</sup>                | 1.037     |
| SFC-090DA2 | C          | 180                | 0.52          | 2           | ± 1.30     | 10000                                    | 50000                         | 54                     | 1798 × 10 <sup>-6</sup>                | 1.369     |
| SFC-100DA2 | C          | 250                | 0.55          | 2           | ± 1.48     | 10000                                    | 60000                         | 55.5                   | 2754 × 10 <sup>-6</sup>                | 1.739     |

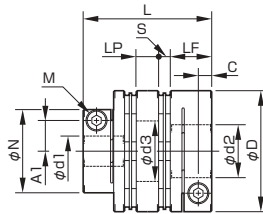
- The rated torque of the coupling may be limited for bore diameters.
- Torsional stiffness values given are measured values for the flexible element alone.
- Higher rpm possible with balancing.
- The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions

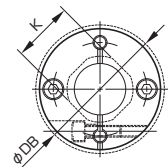
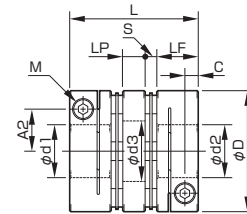
■ TYPE A



■ TYPE B



■ TYPE C



| Model      | Shape type | d1 [mm] |      | d2 [mm] |      | D [mm] | DB [mm] | N [mm] | L [mm] | LF [mm] | LP [mm] | S [mm] | A1 [mm] | A2 [mm] | C [mm] | d3 [mm] | K [mm] | M Quantity - Nominal dia. | Tightening torque [N·m] |
|------------|------------|---------|------|---------|------|--------|---------|--------|--------|---------|---------|--------|---------|---------|--------|---------|--------|---------------------------|-------------------------|
|            |            | Min.    | Max. | Min.    | Max. |        |         |        |        |         |         |        |         |         |        |         |        |                           |                         |
| SFC-002DA2 | C          | 3       | 5    | 3       | 5    | 12     | 12.4    | —      | 15.7   | 5.9     | 2.8     | 0.55   | —       | 3.7     | 1.9    | 5.2     | 5.6    | 1-M1.6                    | 0.23 ~ 0.28             |
| SFC-005DA2 | C          | 3       | 6    | 3       | 6    | 16     | —       | —      | 23.2   | 7.85    | 5.5     | 1      | —       | 4.8     | 2.5    | 6.5     | 6.5    | 1-M2                      | 0.4 ~ 0.5               |
| SFC-010DA2 | C          | 3       | 8    | 3       | 8    | 19     | —       | —      | 25.9   | 9.15    | 5.5     | 1.05   | —       | 5.8 (6) | 3.15   | 8.5     | 8.5    | 1-M2.5 (M2)               | 1.0 ~ 1.1 (0.4 ~ 0.5)   |
| SFC-020DA2 | C          | 4       | 10   | 4       | 11   | 26     | —       | —      | 32.3   | 10.75   | 7.5     | 1.65   | —       | 9.5     | 3.3    | 10.6    | 10.6   | 1-M2.5                    | 1.0 ~ 1.1               |
| SFC-025DA2 | C          | 5       | 14   | 5       | 14   | 29     | —       | —      | 32.8   | 10.75   | 7.5     | 1.9    | —       | 11      | 3.3    | 15      | 14.5   | 1-M2.5                    | 1.0 ~ 1.1               |
| SFC-030DA2 | A          | 5       | 10   | 5       | 10   | 34     | —       | 21.6   | 37.8   | 12.4    | 8       | 2.5    | 8       | —       | 3.75   | 15      | 14.5   | 1-M3                      | 1.5 ~ 1.9               |
|            | C          | Over 10 | 14   | Over 10 | 16   |        |         | —      |        |         |         |        | —       | 12.5    |        |         |        |                           |                         |
| SFC-035DA2 | C          | 6       | 16   | 6       | 19   | 39     | —       | —      | 48     | 15.5    | 11      | 3      | —       | 14      | 4.5    | 17      | 17     | 1-M4                      | 3.4 ~ 4.1               |
| SFC-040DA2 | A          | 8       | 15   | 8       | 15   | 44     | —       | 29.6   | 48     | 15.5    | 11      | 3      | 11      | —       | 4.5    | 20      | 19.5   | 1-M4                      | 3.4 ~ 4.1               |
|            | C          | Over 15 | 19   | Over 15 | 24   |        |         | —      |        |         |         |        | —       | 17      |        |         |        |                           |                         |
| SFC-050DA2 | A          | 8       | 19   | 8       | 19   | 56     | —       | 38     | 59.8   | 20.5    | 14      | 2.4    | 14.5    | 22      | 6      | 26      | 26     | 1-M5                      | 7.0 ~ 8.5               |
|            | C          | Over 19 | 25   | Over 19 | 30   |        |         | —      |        |         |         |        | —       | 22      |        |         |        |                           |                         |
| SFC-055DA2 | A          | 10      | 30   | 10      | 30   | 63     | —       | —      | 68.7   | 24      | 15.5    | 2.6    | —       | 23      | 7.75   | 31      | 31     | 1-M6                      | 14 ~ 15                 |
|            | C          | Over 24 | 30   | Over 24 | 35   |        |         | —      |        |         |         |        | 17.5    | —       |        |         |        |                           |                         |
| SFC-060DA2 | A          | 11      | 24   | 11      | 24   | 68     | —       | 46     | 73.3   | 25.2    | 16.5    | 3.2    | 17.5    | 26.5    | 7.75   | 31      | 31     | 1-M6                      | 14 ~ 15                 |
|            | C          | Over 24 | 30   | Over 24 | 35   |        |         | —      |        |         |         |        | —       | 26.5    |        |         |        |                           |                         |
| SFC-080DA2 | C          | 18      | 35   | 18      | 40   | 82     | —       | —      | 98     | 30      | 22      | 8      | —       | 28      | 9      | 40      | 38     | 1-M8                      | 27 ~ 30                 |
| SFC-090DA2 | C          | 25      | 40   | 25      | 45   | 94     | —       | —      | 98.6   | 30      | 22      | 8.3    | —       | 34      | 9      | 47      | 42     | 1-M8                      | 27 ~ 30                 |
| SFC-100DA2 | C          | 32      | 45   | 32      | 45   | 104    | —       | —      | 101.6  | 30      | 22      | 9.8    | —       | 39      | 9      | 50      | 48     | 1-M8                      | 27 ~ 30                 |

- $\phi DB$  = Interference radius of the screw head
- The figures in parentheses ( ) for the SFC-010 are the values when d1 or d2 is  $\phi 8$  mm.



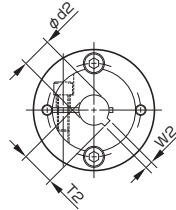
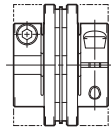
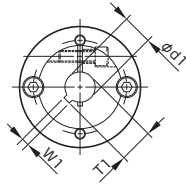


## Options For keyway milling applications

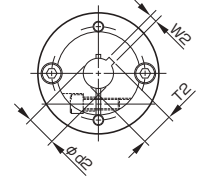
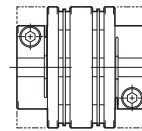
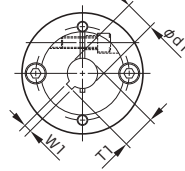
If you are using a keyed shaft, we can mill a keyway in the clamping hub to your specifications.

### Keyway milling standard

#### ■ SFC(SA2)



#### ■ SFC(DA2)



| H9 keyway width standards |                 |    |    |                           |                                  |                                   |                   |                 |    |    |                           |                                   | JS9 keyway width standards        |                   |                 |    |    |                           |                                   |                                   |    |    |    |    |    |                                   |                                   |
|---------------------------|-----------------|----|----|---------------------------|----------------------------------|-----------------------------------|-------------------|-----------------|----|----|---------------------------|-----------------------------------|-----------------------------------|-------------------|-----------------|----|----|---------------------------|-----------------------------------|-----------------------------------|----|----|----|----|----|-----------------------------------|-----------------------------------|
| Nominal bore dia.         |                 |    |    | Bore dia.<br>d1 · d2 [mm] | Keyway width<br>W1 · W2 [mm]     | Keyway height<br>T1 · T2 [mm]     | Nominal bore dia. |                 |    |    | Bore dia.<br>d1 · d2 [mm] | Keyway width<br>W1 · W2 [mm]      | Keyway height<br>T1 · T2 [mm]     | Nominal bore dia. |                 |    |    | Bore dia.<br>d1 · d2 [mm] | Keyway width<br>W1 · W2 [mm]      | Keyway height<br>T1 · T2 [mm]     |    |    |    |    |    |                                   |                                   |
| Shaft diameter            | Shaft tolerance |    |    |                           |                                  |                                   | Shaft diameter    | Shaft tolerance |    |    |                           |                                   |                                   | Shaft diameter    | Shaft tolerance |    |    |                           |                                   |                                   |    |    |    |    |    |                                   |                                   |
|                           | h7              | j6 | k6 | h7                        | j6                               | k6                                |                   | h7              | j6 | k6 | h7                        | j6                                | k6                                |                   |                 |    |    |                           |                                   |                                   |    |    |    |    |    |                                   |                                   |
| 8                         | BH              | —  | KH | 8                         | 3 <sup>+0.025</sup> <sub>0</sub> | 9.4 <sup>+0.3</sup> <sub>0</sub>  | 20                | BH              | —  | —  | 20                        | 6 <sup>+0.030</sup> <sub>0</sub>  | 22.8 <sup>+0.3</sup> <sub>0</sub> | 8                 | BJ              | —  | KJ | 8                         | 3 <sup>+0.0125</sup> <sub>0</sub> | 9.4 <sup>+0.3</sup> <sub>0</sub>  | 20 | BJ | —  | —  | 20 | 6 <sup>+0.030</sup> <sub>0</sub>  | 22.8 <sup>+0.3</sup> <sub>0</sub> |
| 9                         | BH              | —  | KH | 9                         | 3 <sup>+0.025</sup> <sub>0</sub> | 10.4 <sup>+0.3</sup> <sub>0</sub> | 22                | BH              | JH | KH | 22                        | 6 <sup>+0.030</sup> <sub>0</sub>  | 24.8 <sup>+0.3</sup> <sub>0</sub> | 9                 | BJ              | —  | KJ | 9                         | 3 <sup>+0.0125</sup> <sub>0</sub> | 10.4 <sup>+0.3</sup> <sub>0</sub> | 22 | BJ | JJ | KJ | 22 | 6 <sup>+0.030</sup> <sub>0</sub>  | 24.8 <sup>+0.3</sup> <sub>0</sub> |
| 10                        | BH              | —  | —  | 10                        | 3 <sup>+0.025</sup> <sub>0</sub> | 11.4 <sup>+0.3</sup> <sub>0</sub> | 24                | BH              | JH | KH | 24                        | 8 <sup>+0.036</sup> <sub>0</sub>  | 27.3 <sup>+0.3</sup> <sub>0</sub> | 10                | BJ              | —  | —  | 10                        | 3 <sup>+0.0125</sup> <sub>0</sub> | 11.4 <sup>+0.3</sup> <sub>0</sub> | 24 | BJ | JJ | KJ | 24 | 8 <sup>+0.036</sup> <sub>0</sub>  | 27.3 <sup>+0.3</sup> <sub>0</sub> |
| 11                        | BH              | —  | —  | 11                        | 4 <sup>+0.030</sup> <sub>0</sub> | 12.8 <sup>+0.3</sup> <sub>0</sub> | 25                | BH              | —  | —  | 25                        | 8 <sup>+0.036</sup> <sub>0</sub>  | 28.3 <sup>+0.3</sup> <sub>0</sub> | 11                | BJ              | —  | —  | 11                        | 4 <sup>+0.0150</sup> <sub>0</sub> | 12.8 <sup>+0.3</sup> <sub>0</sub> | 25 | BJ | —  | —  | 25 | 8 <sup>+0.036</sup> <sub>0</sub>  | 28.3 <sup>+0.3</sup> <sub>0</sub> |
| 12                        | BH              | —  | —  | 12                        | 4 <sup>+0.030</sup> <sub>0</sub> | 13.8 <sup>+0.3</sup> <sub>0</sub> | 28                | BH              | JH | —  | 28                        | 8 <sup>+0.036</sup> <sub>0</sub>  | 31.3 <sup>+0.3</sup> <sub>0</sub> | 12                | BJ              | —  | —  | 12                        | 4 <sup>+0.0150</sup> <sub>0</sub> | 13.8 <sup>+0.3</sup> <sub>0</sub> | 28 | BJ | JJ | —  | 28 | 8 <sup>+0.036</sup> <sub>0</sub>  | 31.3 <sup>+0.3</sup> <sub>0</sub> |
| 13                        | BH              | —  | —  | 13                        | 5 <sup>+0.030</sup> <sub>0</sub> | 15.3 <sup>+0.3</sup> <sub>0</sub> | 30                | BH              | —  | —  | 30                        | 8 <sup>+0.036</sup> <sub>0</sub>  | 33.3 <sup>+0.3</sup> <sub>0</sub> | 13                | BJ              | —  | —  | 13                        | 5 <sup>+0.0150</sup> <sub>0</sub> | 15.3 <sup>+0.3</sup> <sub>0</sub> | 30 | BJ | —  | —  | 30 | 8 <sup>+0.036</sup> <sub>0</sub>  | 33.3 <sup>+0.3</sup> <sub>0</sub> |
| 14                        | BH              | —  | KH | 14                        | 5 <sup>+0.030</sup> <sub>0</sub> | 16.3 <sup>+0.3</sup> <sub>0</sub> | 32                | BH              | —  | KH | 32                        | 10 <sup>+0.036</sup> <sub>0</sub> | 35.3 <sup>+0.3</sup> <sub>0</sub> | 14                | BJ              | —  | KJ | 14                        | 5 <sup>+0.0150</sup> <sub>0</sub> | 16.3 <sup>+0.3</sup> <sub>0</sub> | 32 | BJ | —  | KJ | 32 | 10 <sup>+0.036</sup> <sub>0</sub> | 35.3 <sup>+0.3</sup> <sub>0</sub> |
| 15                        | BH              | —  | —  | 15                        | 5 <sup>+0.030</sup> <sub>0</sub> | 17.3 <sup>+0.3</sup> <sub>0</sub> | 35                | BH              | —  | —  | 35                        | 10 <sup>+0.036</sup> <sub>0</sub> | 38.3 <sup>+0.3</sup> <sub>0</sub> | 15                | BJ              | —  | —  | 15                        | 5 <sup>+0.0150</sup> <sub>0</sub> | 17.3 <sup>+0.3</sup> <sub>0</sub> | 35 | BJ | —  | —  | 35 | 10 <sup>+0.036</sup> <sub>0</sub> | 38.3 <sup>+0.3</sup> <sub>0</sub> |
| 16                        | BH              | —  | KH | 16                        | 5 <sup>+0.030</sup> <sub>0</sub> | 18.3 <sup>+0.3</sup> <sub>0</sub> | 38                | BH              | —  | KH | 38                        | 10 <sup>+0.036</sup> <sub>0</sub> | 41.3 <sup>+0.3</sup> <sub>0</sub> | 16                | BJ              | —  | KJ | 16                        | 5 <sup>+0.0150</sup> <sub>0</sub> | 18.3 <sup>+0.3</sup> <sub>0</sub> | 38 | BJ | —  | KJ | 38 | 10 <sup>+0.036</sup> <sub>0</sub> | 41.3 <sup>+0.3</sup> <sub>0</sub> |
| 17                        | BH              | —  | —  | 17                        | 5 <sup>+0.030</sup> <sub>0</sub> | 19.3 <sup>+0.3</sup> <sub>0</sub> | 40                | BH              | —  | —  | 40                        | 12 <sup>+0.043</sup> <sub>0</sub> | 43.3 <sup>+0.3</sup> <sub>0</sub> | 17                | BJ              | —  | —  | 17                        | 5 <sup>+0.0150</sup> <sub>0</sub> | 19.3 <sup>+0.3</sup> <sub>0</sub> | 40 | BJ | —  | —  | 40 | 12 <sup>+0.043</sup> <sub>0</sub> | 43.3 <sup>+0.3</sup> <sub>0</sub> |
| 18                        | BH              | —  | —  | 18                        | 6 <sup>+0.030</sup> <sub>0</sub> | 20.8 <sup>+0.3</sup> <sub>0</sub> | 42                | BH              | —  | —  | 42                        | 12 <sup>+0.043</sup> <sub>0</sub> | 45.3 <sup>+0.3</sup> <sub>0</sub> | 18                | BJ              | —  | —  | 18                        | 6 <sup>+0.0150</sup> <sub>0</sub> | 20.8 <sup>+0.3</sup> <sub>0</sub> | 42 | BJ | —  | —  | 42 | 12 <sup>+0.043</sup> <sub>0</sub> | 45.3 <sup>+0.3</sup> <sub>0</sub> |
| 19                        | BH              | JH | KH | 19                        | 6 <sup>+0.030</sup> <sub>0</sub> | 21.8 <sup>+0.3</sup> <sub>0</sub> | 45                | BH              | —  | —  | 45                        | 14 <sup>+0.043</sup> <sub>0</sub> | 48.8 <sup>+0.3</sup> <sub>0</sub> | 19                | BJ              | JJ | KJ | 19                        | 6 <sup>+0.0150</sup> <sub>0</sub> | 21.8 <sup>+0.3</sup> <sub>0</sub> | 45 | BJ | —  | —  | 45 | 14 <sup>+0.043</sup> <sub>0</sub> | 48.8 <sup>+0.3</sup> <sub>0</sub> |

• We can also handle standards not listed above. Please contact Miki Pulley.

### Standard Bore Diameter

|                                        |              | Standard (option) bore diameter, d1/d2 [mm] and related rated torque [N·m] |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|----------------------------------------|--------------|----------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|
| Nominal bore diameter                  |              |                                                                            | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32  | 35 | 38 | 40 | 42 | 45 |
| Shaft tolerance                        | h7 (h6 - g6) | B                                                                          | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  | ●  |
|                                        | j6 (Option)  | J                                                                          |    |    |    |    |    |    |    |    |    |    |    | ○  |    | ○  | ○  |    | ○  |    |     |    |    |    |    |    |
|                                        | k6 (Option)  | K                                                                          | ○  | ○  |    |    |    |    | ○  |    | ○  |    |    | ○  |    | ○  | ○  |    |    |    | ○   |    | ○  |    |    |    |
| Supported bore diameter for each model | SFC-025DA2   | d1                                                                         | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|                                        |              | d2                                                                         | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|                                        | SFC-030DA2   | d1                                                                         | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|                                        |              | d2                                                                         | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|                                        | SFC-035DA2   | d1                                                                         | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|                                        |              | d2                                                                         | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |     |    |    |    |    |    |
|                                        | SFC-040DA2   | d1                                                                         | 9  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |     |    |    |    |    |    |
|                                        |              | d2                                                                         | 9  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |     |    |    |    |    |    |
|                                        | SFC-050DA2   | d1                                                                         | 18 | 20 | 22 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |     |    |    |    |    |    |
|                                        |              | d2                                                                         | 18 | 20 | 22 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |    |
|                                        | SFC-055DA2   | d1                                                                         |    |    |    | 31 | 34 | 36 | 38 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |    |
|                                        |              | d2                                                                         |    |    |    | 31 | 34 | 36 | 38 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |    |
|                                        | SFC-060DA2   | d1                                                                         |    |    |    |    | 50 | 51 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |    |    |    |    |    |
|                                        |              | d2                                                                         |    |    |    |    | 50 | 51 | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  |    |    |    |
|                                        | SFC-080DA2   | d1                                                                         |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  | ●  |
|                                        |              | d2                                                                         |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  | ●  |
| SFC-090DA2                             | d1           |                                                                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  |    |
|                                        | d2           |                                                                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●   | ●  | ●  | ●  | ●  |    |
| SFC-100DA2                             | d1           |                                                                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 226 | ●  | ●  | ●  | ●  |    |
|                                        | d2           |                                                                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 226 | ●  | ●  | ●  | ●  |    |

• The shaft tolerance for standard bore diameter is h7 (h6 or g6): designation B. However, for a bore diameter of ø35, the shaft tolerance is <sup>+0.010</sup><sub>-0.025</sub>.

• Shaft tolerances j6/k6: designations J/K are optional, and are only supported for bore diameters marked with ○.

• Bore diameters marked with ● or numbers are supported as the standard bore diameters. Please contact Miki Pulley regarding special arrangements which may be possible for other bore diameters.

• Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N·m].

### How to Place an Order

#### SFC-060SA2-12BH-14KJ

Size

Type

SA2: Single element  
DA2: Double element

Bore diameter d1  
(Small diameter)

Bore diameter d2  
(Large diameter)

Affixing method

KJ: k6 shaft + JS9 keyway

Affixing method

BH: h7 (h6, g6) shaft + H9 keyway

• For nominal bore diameter, select d1 (small diameter) – d2 (large diameter) in that order.

• If d1=d2 (same diameters), select B, J, and K in that order.

B · J · K · BH · BJ · JH · JJ · KH · KJ

# SFS(S) Types Single Element Type

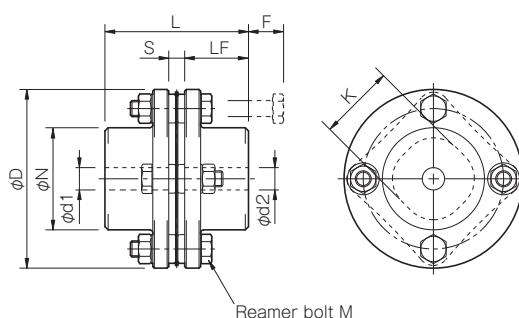
## Specifications

| Model   | Rated torque<br>[N·m] | Misalignment |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|---------|-----------------------|--------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|         |                       | Angular [°]  | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFS-05S | 20                    | 1            | ± 0.6      | 25000                                          | 16000                               | 43                        | $0.11 \times 10^{-3}$                        | 0.30         |
| SFS-06S | 40                    | 1            | ± 0.8      | 20000                                          | 29000                               | 45                        | $0.30 \times 10^{-3}$                        | 0.50         |
| SFS-08S | 80                    | 1            | ± 1.0      | 17000                                          | 83000                               | 60                        | $0.87 \times 10^{-3}$                        | 1.00         |
| SFS-09S | 180                   | 1            | ± 1.2      | 15000                                          | 170000                              | 122                       | $1.60 \times 10^{-3}$                        | 1.40         |
| SFS-10S | 250                   | 1            | ± 1.4      | 13000                                          | 250000                              | 160                       | $2.60 \times 10^{-3}$                        | 2.10         |
| SFS-12S | 450                   | 1            | ± 1.6      | 11000                                          | 430000                              | 197                       | $6.50 \times 10^{-3}$                        | 3.40         |
| SFS-14S | 800                   | 1            | ± 1.8      | 9500                                           | 780000                              | 313                       | $9.90 \times 10^{-3}$                        | 4.90         |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



| Model   | d1 • d2    |      |      | D   | N  | L   | LF | S  | F  | K  | M          |
|---------|------------|------|------|-----|----|-----|----|----|----|----|------------|
|         | Pilot bore | Min. | Max. |     |    |     |    |    |    |    |            |
| SFS-05S | 7          | 8    | 20   | 56  | 32 | 45  | 20 | 5  | 11 | 24 | 4-M5 × 22  |
| SFS-06S | 7          | 8    | 25   | 68  | 40 | 56  | 25 | 6  | 10 | 30 | 4-M6 × 25  |
| SFS-08S | 10         | 11   | 35   | 82  | 54 | 66  | 30 | 6  | 11 | 38 | 4-M6 × 29  |
| SFS-09S | 10         | 11   | 38   | 94  | 58 | 68  | 30 | 8  | 21 | 42 | 4-M8 × 36  |
| SFS-10S | 15         | 16   | 42   | 104 | 68 | 80  | 35 | 10 | 16 | 48 | 4-M8 × 36  |
| SFS-12S | 18         | 19   | 50   | 126 | 78 | 91  | 40 | 11 | 23 | 54 | 4-M10 × 45 |
| SFS-14S | 20         | 22   | 60   | 144 | 88 | 102 | 45 | 12 | 31 | 61 | 4-M12 × 54 |

Unit [mm]

## Standard Bore Diameter

| Model   | Standard bore diameter d1 • d2 [mm] |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 8                                   | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 56 | 60 |
| SFS-05S | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-06S | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-08S |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| SFS-09S |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| SFS-10S |                                     |   |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| SFS-12S |                                     |   |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| SFS-14S |                                     |   |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

## How to Place an Order

SFS-10S-25H-30H

Size  
Type: S  
Single element

Bore diameter: d1 (Small diameter) – d2 (Large diameter)

Blank: Pilot bore

Bore specifications

Blank: Compliant with the old JIS standards (class 2) E9

H: Compliant with the new JIS standards H9

J: Compliant with the new JIS standards JS9

P: Compliant with the new JIS standards P9

N: Compliant with the new motor standards

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
| Oldham Couplings             | Oldham Couplings<br>KSK                    |

## MODELS

SFC

SFS

SFF

SFM

SFH

# SFS(S-C) Types Single Element Type/Electroless Nickel Plating Specification

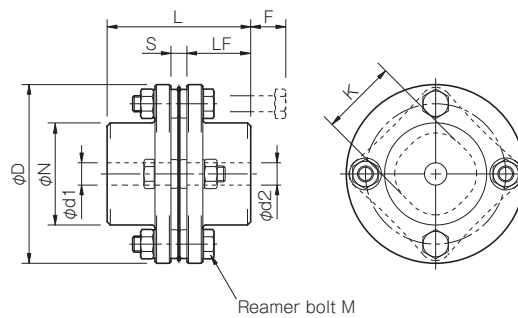
## Specifications

| Model     | Rated torque<br>[N·m] | Misalignment |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|-----------|-----------------------|--------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|           |                       | Angular [°]  | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFS-05S-C | 15                    | 1            | ± 0.6      | 25000                                          | 16000                               | 43                        | $0.11 \times 10^{-3}$                        | 0.30         |
| SFS-06S-C | 30                    | 1            | ± 0.8      | 20000                                          | 29000                               | 45                        | $0.30 \times 10^{-3}$                        | 0.50         |
| SFS-08S-C | 60                    | 1            | ± 1.0      | 17000                                          | 83000                               | 60                        | $0.87 \times 10^{-3}$                        | 1.00         |
| SFS-09S-C | 135                   | 1            | ± 1.2      | 15000                                          | 170000                              | 122                       | $1.60 \times 10^{-3}$                        | 1.40         |
| SFS-10S-C | 190                   | 1            | ± 1.4      | 13000                                          | 250000                              | 160                       | $2.60 \times 10^{-3}$                        | 2.10         |
| SFS-12S-C | 340                   | 1            | ± 1.6      | 11000                                          | 430000                              | 197                       | $6.50 \times 10^{-3}$                        | 3.40         |
| SFS-14S-C | 600                   | 1            | ± 1.8      | 9500                                           | 780000                              | 313                       | $9.90 \times 10^{-3}$                        | 4.90         |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



Unit [mm]

| Model     | d1 · d2 |      | D   | N  | L   | LF | S  | F  | K  | M          |
|-----------|---------|------|-----|----|-----|----|----|----|----|------------|
|           | Min.    | Max. |     |    |     |    |    |    |    |            |
| SFS-05S-C | 8       | 20   | 56  | 32 | 45  | 20 | 5  | 11 | 24 | 4-M5 × 22  |
| SFS-06S-C | 8       | 25   | 68  | 40 | 56  | 25 | 6  | 10 | 30 | 4-M6 × 25  |
| SFS-08S-C | 11      | 35   | 82  | 54 | 66  | 30 | 6  | 11 | 38 | 4-M6 × 29  |
| SFS-09S-C | 11      | 38   | 94  | 58 | 68  | 30 | 8  | 21 | 42 | 4-M8 × 36  |
| SFS-10S-C | 16      | 42   | 104 | 68 | 80  | 35 | 10 | 16 | 48 | 4-M8 × 36  |
| SFS-12S-C | 19      | 50   | 126 | 78 | 91  | 40 | 11 | 23 | 54 | 4-M10 × 45 |
| SFS-14S-C | 22      | 60   | 144 | 88 | 102 | 45 | 12 | 31 | 61 | 4-M12 × 54 |

## Standard Bore Diameter

| Model     | Standard bore diameter d1 · d2 [mm] |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|-----------|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
|           | 8                                   | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 56 | 60 |   |   |
| SFS-05S-C | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
| SFS-06S-C | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
| SFS-08S-C |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |   |   |
| SFS-09S-C |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |   |   |
| SFS-10S-C |                                     |   |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |   |   |
| SFS-12S-C |                                     |   |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |   |   |
| SFS-14S-C |                                     |   |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ● | ● |

## How to Place an Order

### SFS-10S-C-25H-30H

Size: 10  
Type: S  
Single element  
Surface finishing: -C: Electroless nickel plating  
Bore diameter: d1 (Small diameter) - d2 (Large diameter)  
Bore specifications:  
Blank: Compliant with the old JIS standards (class 2) E9  
H: Compliant with the new JIS standards H9  
J: Compliant with the new JIS standards JS9  
P: Compliant with the new JIS standards P9  
N: Compliant with the new motor standards

# SFS(W) Types Double Element Type

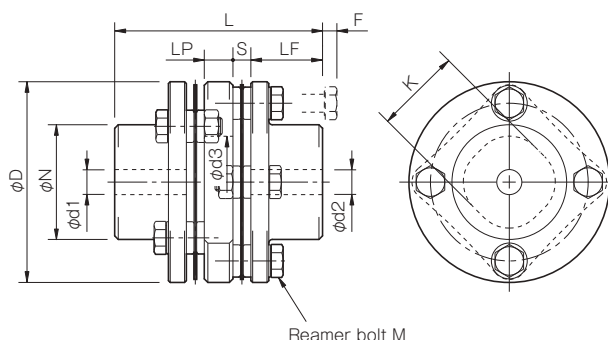
## Specifications

| Model   | Rated torque [N·m] | Misalignment  |             |            | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Axial stiffness [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] |
|---------|--------------------|---------------|-------------|------------|------------------------------------------|-------------------------------|------------------------|----------------------------------------|-----------|
|         |                    | Parallel [mm] | Angular [°] | Axial [mm] |                                          |                               |                        |                                        |           |
| SFS-05W | 20                 | 0.2           | 2           | ± 1.2      | 10000                                    | 8000                          | 21                     | $0.14 \times 10^{-3}$                  | 0.40      |
| SFS-06W | 40                 | 0.3           | 2           | ± 1.6      | 8000                                     | 14000                         | 22                     | $0.41 \times 10^{-3}$                  | 0.70      |
| SFS-08W | 80                 | 0.3           | 2           | ± 2.0      | 6800                                     | 41000                         | 30                     | $1.10 \times 10^{-3}$                  | 1.30      |
| SFS-09W | 180                | 0.5           | 2           | ± 2.4      | 6000                                     | 85000                         | 61                     | $2.20 \times 10^{-3}$                  | 2.10      |
| SFS-10W | 250                | 0.5           | 2           | ± 2.8      | 5200                                     | 125000                        | 80                     | $3.60 \times 10^{-3}$                  | 2.80      |
| SFS-12W | 450                | 0.6           | 2           | ± 3.2      | 4400                                     | 215000                        | 98                     | $9.20 \times 10^{-3}$                  | 4.90      |
| SFS-14W | 800                | 0.7           | 2           | ± 3.6      | 3800                                     | 390000                        | 156                    | $15.00 \times 10^{-3}$                 | 7.10      |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



Unit [mm]

| Model   | d1 • d2    |      |      | D   | N  | L   | LF | LP | S  | F  | d3 | K  | M          |
|---------|------------|------|------|-----|----|-----|----|----|----|----|----|----|------------|
|         | Pilot bore | Min. | Max. |     |    |     |    |    |    |    |    |    |            |
| SFS-05W | 7          | 8    | 20   | 56  | 32 | 58  | 20 | 8  | 5  | 4  | 20 | 24 | 8-M5 × 15  |
| SFS-06W | 7          | 8    | 25   | 68  | 40 | 74  | 25 | 12 | 6  | 3  | 24 | 30 | 8-M6 × 18  |
| SFS-08W | 10         | 11   | 35   | 82  | 54 | 84  | 30 | 12 | 6  | 2  | 28 | 38 | 8-M6 × 20  |
| SFS-09W | 10         | 11   | 38   | 94  | 58 | 98  | 30 | 22 | 8  | 12 | 32 | 42 | 8-M8 × 27  |
| SFS-10W | 15         | 16   | 42   | 104 | 68 | 110 | 35 | 20 | 10 | 7  | 34 | 48 | 8-M8 × 27  |
| SFS-12W | 18         | 19   | 50   | 126 | 78 | 127 | 40 | 25 | 11 | 10 | 40 | 54 | 8-M10 × 32 |
| SFS-14W | 20         | 22   | 60   | 144 | 88 | 144 | 45 | 30 | 12 | 15 | 46 | 61 | 8-M12 × 38 |

## Standard Bore Diameter

| Model   | Standard bore diameter d1 • d2 [mm] |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 8                                   | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 56 | 60 |
| SFS-05W | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-06W | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-08W |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |
| SFS-09W |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFS-10W |                                     |   |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |
| SFS-12W |                                     |   |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |
| SFS-14W |                                     |   |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

## How to Place an Order

SFS-10W-25H-30H

Size  
Type: W  
Double element

Bore diameter: d1 (Small diameter) – d2 (Large diameter)  
Blank: Pilot bore  
Bore specifications  
Blank: Compliant with the old JIS standards (class 2) E9  
H: Compliant with the new JIS standards H9  
J: Compliant with the new JIS standards JS9  
P: Compliant with the new JIS standards P9  
N: Compliant with the new motor standards

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

## MODELS

SFC

SFS

SFF

SFM

SFH

# SFS(W-C) Types Double Element Type/Electroless Nickel Plating Specification

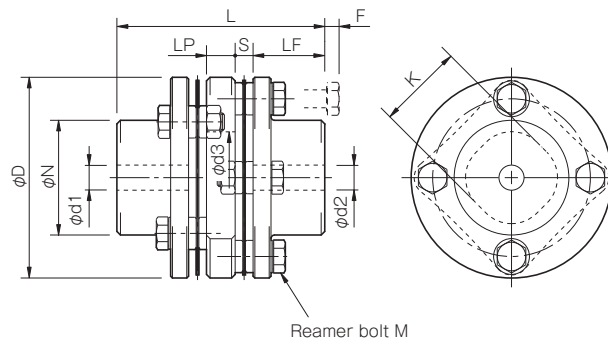
## Specifications

| Model     | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|-----------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|           |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFS-05W-C | 15                    | 0.2           | 2           | ± 1.2      | 10000                                          | 8000                                | 21                        | $0.14 \times 10^{-3}$                        | 0.40         |
| SFS-06W-C | 30                    | 0.3           | 2           | ± 1.6      | 8000                                           | 14000                               | 22                        | $0.41 \times 10^{-3}$                        | 0.70         |
| SFS-08W-C | 60                    | 0.3           | 2           | ± 2.0      | 6800                                           | 41000                               | 30                        | $1.10 \times 10^{-3}$                        | 1.30         |
| SFS-09W-C | 135                   | 0.5           | 2           | ± 2.4      | 6000                                           | 85000                               | 61                        | $2.20 \times 10^{-3}$                        | 2.10         |
| SFS-10W-C | 190                   | 0.5           | 2           | ± 2.8      | 5200                                           | 125000                              | 80                        | $3.60 \times 10^{-3}$                        | 2.80         |
| SFS-12W-C | 340                   | 0.6           | 2           | ± 3.2      | 4400                                           | 215000                              | 98                        | $9.20 \times 10^{-3}$                        | 4.90         |
| SFS-14W-C | 600                   | 0.7           | 2           | ± 3.6      | 3800                                           | 390000                              | 156                       | $15.00 \times 10^{-3}$                       | 7.10         |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



Unit [mm]

| Model     | d1 • d2 |      | D   | N  | L   | LF | LP | S  | F  | d3 | K  | M          |
|-----------|---------|------|-----|----|-----|----|----|----|----|----|----|------------|
|           | Min.    | Max. |     |    |     |    |    |    |    |    |    |            |
| SFS-05W-C | 8       | 20   | 56  | 32 | 58  | 20 | 8  | 5  | 4  | 20 | 24 | 8-M5 × 15  |
| SFS-06W-C | 8       | 25   | 68  | 40 | 74  | 25 | 12 | 6  | 3  | 24 | 30 | 8-M6 × 18  |
| SFS-08W-C | 11      | 35   | 82  | 54 | 84  | 30 | 12 | 6  | 2  | 28 | 38 | 8-M6 × 20  |
| SFS-09W-C | 11      | 38   | 94  | 58 | 98  | 30 | 22 | 8  | 12 | 32 | 42 | 8-M8 × 27  |
| SFS-10W-C | 16      | 42   | 104 | 68 | 110 | 35 | 20 | 10 | 7  | 34 | 48 | 8-M8 × 27  |
| SFS-12W-C | 19      | 50   | 126 | 78 | 127 | 40 | 25 | 11 | 10 | 40 | 54 | 8-M10 × 32 |
| SFS-14W-C | 22      | 60   | 144 | 88 | 144 | 45 | 30 | 12 | 15 | 46 | 61 | 8-M12 × 38 |

## Standard Bore Diameter

| Model     | Standard bore diameter d1 • d2 [mm] |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-----------|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
|           | 8                                   | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 56 | 60 |  |  |
| SFS-05W-C | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFS-06W-C | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFS-08W-C |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |  |
| SFS-09W-C |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |  |  |
| SFS-10W-C |                                     |   |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |  |  |
| SFS-12W-C |                                     |   |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |  |  |
| SFS-14W-C |                                     |   |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |

## How to Place an Order

### SFS-10W-C-25H-30H

Size: 10  
Type: W  
Double element

Surface finishing: -C: Electroless nickel plating

Bore diameter: d1 (Small diameter) – d2 (Large diameter)  
Bore specifications:  
Blank: Compliant with the old JIS standards (class 2) E9  
H: Compliant with the new JIS standards H9  
J: Compliant with the new JIS standards JS9  
P: Compliant with the new JIS standards P9  
N: Compliant with the new motor standards



# SFS(G) Types Floating Shaft Type

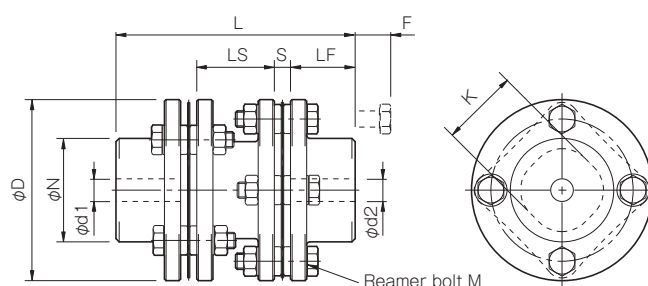
## Specifications

| Model   | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|---------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|         |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFS-05G | 20                    | 0.5           | 2           | ± 1.2      | 20000                                          | 8000                                | 21                        | $0.20 \times 10^{-3}$                        | 0.50         |
| SFS-06G | 40                    | 0.5           | 2           | ± 1.6      | 16000                                          | 14000                               | 22                        | $0.55 \times 10^{-3}$                        | 0.90         |
| SFS-08G | 80                    | 0.5           | 2           | ± 2.0      | 13000                                          | 41000                               | 30                        | $1.50 \times 10^{-3}$                        | 1.70         |
| SFS-09G | 180                   | 0.6           | 2           | ± 2.4      | 12000                                          | 85000                               | 61                        | $2.90 \times 10^{-3}$                        | 2.40         |
| SFS-10G | 250                   | 0.6           | 2           | ± 2.8      | 10000                                          | 125000                              | 80                        | $4.60 \times 10^{-3}$                        | 3.30         |
| SFS-12G | 450                   | 0.8           | 2           | ± 3.2      | 8000                                           | 215000                              | 98                        | $11.80 \times 10^{-3}$                       | 5.80         |
| SFS-14G | 800                   | 0.9           | 2           | ± 3.6      | 7000                                           | 390000                              | 156                       | $21.20 \times 10^{-3}$                       | 8.60         |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



Unit [mm]

| Model   | d1 · d2    |      |      | D   | N  | L   | LF | LS | S  | F  | K  | M          |
|---------|------------|------|------|-----|----|-----|----|----|----|----|----|------------|
|         | Pilot bore | Min. | Max. |     |    |     |    |    |    |    |    |            |
| SFS-05G | 7          | 8    | 20   | 56  | 32 | 74  | 20 | 24 | 5  | 11 | 24 | 8-M5 × 22  |
| SFS-06G | 7          | 8    | 25   | 68  | 40 | 86  | 25 | 24 | 6  | 10 | 30 | 8-M6 × 25  |
| SFS-08G | 10         | 11   | 35   | 82  | 54 | 98  | 30 | 26 | 6  | 11 | 38 | 8-M6 × 29  |
| SFS-09G | 10         | 11   | 38   | 94  | 58 | 106 | 30 | 30 | 8  | 21 | 42 | 8-M8 × 36  |
| SFS-10G | 15         | 16   | 42   | 104 | 68 | 120 | 35 | 30 | 10 | 16 | 48 | 8-M8 × 36  |
| SFS-12G | 18         | 19   | 50   | 126 | 78 | 140 | 40 | 38 | 11 | 23 | 54 | 8-M10 × 45 |
| SFS-14G | 20         | 22   | 60   | 144 | 88 | 160 | 45 | 46 | 12 | 31 | 61 | 8-M12 × 54 |

• Further dimensions for LS possible on request.

## Standard Bore Diameter

| Model   | Standard bore diameter d1 · d2 [mm] |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 8                                   | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 56 | 60 |
| SFS-05G | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-06G | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-08G |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |
| SFS-09G |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFS-10G |                                     |   |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |
| SFS-12G |                                     |   |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |
| SFS-14G |                                     |   |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

## How to Place an Order

SFS-10G-25H-30H LS=500

Size  
Type: G  
Double element  
Floating shaft  
Spacer length  
Blank: Standard spacers  
Bore diameter: d1 (Small diameter) - d2 (Large diameter)  
Blank: Pilot bore  
Bore specifications  
Blank: Compliant with the old JIS standards (class 2) E9  
H: Compliant with the new JIS standards H9  
J: Compliant with the new JIS standards JS9  
P: Compliant with the new JIS standards P9  
N: Compliant with the new motor standards

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
| Oldham Couplings<br>KSK      |                                            |

## MODELS

SFC

SFS

SFF

SFM

SFH

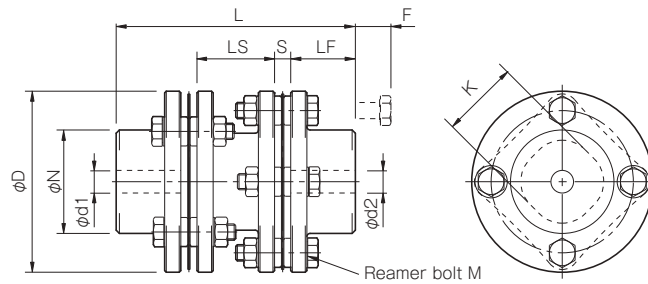
# SFS(G-C) Types Floating Shaft Type/Electroless Nickel Plating Specification

## Specifications

| Model     | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|-----------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|           |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFS-05G-C | 15                    | 0.5           | 2           | ± 1.2      | 20000                                          | 8000                                | 21                        | $0.20 \times 10^{-3}$                        | 0.50         |
| SFS-06G-C | 30                    | 0.5           | 2           | ± 1.6      | 16000                                          | 14000                               | 22                        | $0.55 \times 10^{-3}$                        | 0.90         |
| SFS-08G-C | 60                    | 0.5           | 2           | ± 2.0      | 13000                                          | 41000                               | 30                        | $1.50 \times 10^{-3}$                        | 1.70         |
| SFS-09G-C | 135                   | 0.6           | 2           | ± 2.4      | 12000                                          | 85000                               | 61                        | $2.90 \times 10^{-3}$                        | 2.40         |
| SFS-10G-C | 190                   | 0.6           | 2           | ± 2.8      | 10000                                          | 125000                              | 80                        | $4.60 \times 10^{-3}$                        | 3.30         |
| SFS-12G-C | 340                   | 0.8           | 2           | ± 3.2      | 8000                                           | 215000                              | 98                        | $11.80 \times 10^{-3}$                       | 5.80         |
| SFS-14G-C | 600                   | 0.9           | 2           | ± 3.6      | 7000                                           | 390000                              | 156                       | $21.20 \times 10^{-3}$                       | 8.60         |

- Higher rpm possible with balancing.
- The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



Unit [mm]

| Model     | d1 • d2 |      | D   | N  | L   | LF | LS | S  | F  | K  | M          |
|-----------|---------|------|-----|----|-----|----|----|----|----|----|------------|
|           | Min.    | Max. |     |    |     |    |    |    |    |    |            |
| SFS-05G-C | 8       | 20   | 56  | 32 | 74  | 20 | 24 | 5  | 11 | 24 | 8-M5 × 22  |
| SFS-06G-C | 8       | 25   | 68  | 40 | 86  | 25 | 24 | 6  | 10 | 30 | 8-M6 × 25  |
| SFS-08G-C | 11      | 35   | 82  | 54 | 98  | 30 | 26 | 6  | 11 | 38 | 8-M6 × 29  |
| SFS-09G-C | 11      | 38   | 94  | 58 | 106 | 30 | 30 | 8  | 21 | 42 | 8-M8 × 36  |
| SFS-10G-C | 16      | 42   | 104 | 68 | 120 | 35 | 30 | 10 | 16 | 48 | 8-M8 × 36  |
| SFS-12G-C | 19      | 50   | 126 | 78 | 140 | 40 | 38 | 11 | 23 | 54 | 8-M10 × 45 |
| SFS-14G-C | 22      | 60   | 144 | 88 | 160 | 45 | 46 | 12 | 31 | 61 | 8-M12 × 54 |

- Further dimensions for LS possible on request.
- Please note that when the LS dimension exceeds 100 mm with the electroless nickel plating option (SFS-□G-C), the insertion length of the shaft cannot exceed the LS dimension.

## Standard Bore Diameter

| Model     | Standard bore diameter d1 • d2 [mm] |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------|-------------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|           | 8                                   | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 56 | 60 |
| SFS-05G-C | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-06G-C | ●                                   | ● | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SFS-08G-C |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |
| SFS-09G-C |                                     |   |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFS-10G-C |                                     |   |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |
| SFS-12G-C |                                     |   |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |
| SFS-14G-C |                                     |   |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

### How to Place an Order

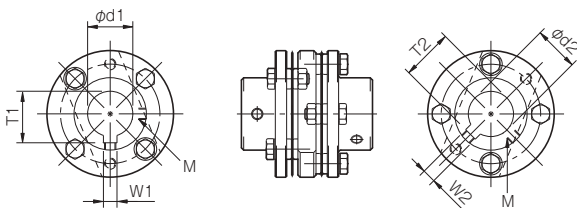
**SFS-10G-C-25H-30H LS=500**

- Size
- Type: G  
Double element  
Floating shaft
- Surface finishing  
-C: Electroless nickel plating
- Bore diameter: d1 (Small diameter) - d2 (Large diameter)
- Spacer length  
• Blank: Standard spacers
- Bore specifications  
Blank: Compliant with the old JIS standards (class 2) E9  
H: Compliant with the new JIS standards H9  
J: Compliant with the new JIS standards JS9  
P: Compliant with the new JIS standards P9  
N: Compliant with the new motor standards

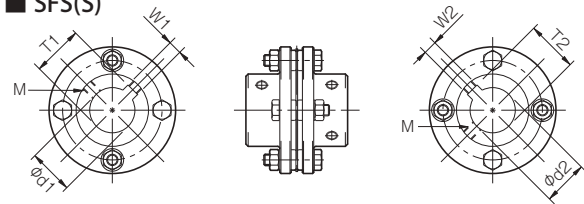
## Standard Hole-Drillings

- Positioning precision for keyway milling is determined by sight, so contact Miki Pulley when the keyway requires a positioning precision.
- The set screws are included with the product.
- Contact Miki Pulley regarding technical documents for standard dimensions for bore drilling other than those given here.

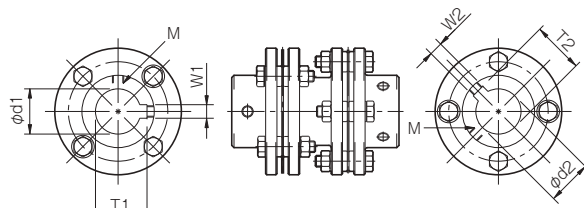
## ■ SFS(W)



## ■ SFS(S)



## ■ SFS(G)



Unit [mm]

| Models compliant with the old JIS standards (class 2) |                                   |                                        |                         |                    | Models compliant with the new JIS standards (H9) |                                   |                                   |                         |                    | Models compliant with the new JIS standards (JS9) |                                   |                                    |                         |                    | Models compliant with the new JIS standards (P9) |                                   |                                        |                         |                    |
|-------------------------------------------------------|-----------------------------------|----------------------------------------|-------------------------|--------------------|--------------------------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|---------------------------------------------------|-----------------------------------|------------------------------------|-------------------------|--------------------|--------------------------------------------------|-----------------------------------|----------------------------------------|-------------------------|--------------------|
| Nominal bore diameter                                 | Bore diameter [d1 · d2]           | Keyway width [W1 · W2]                 | Keyway height [T1 · T2] | Set screw hole [M] | Nominal bore diameter                            | Bore diameter [d1 · d2]           | Keyway width [W1 · W2]            | Keyway height [T1 · T2] | Set screw hole [M] | Nominal bore diameter                             | Bore diameter [d1 · d2]           | Keyway width [W1 · W2]             | Keyway height [T1 · T2] | Set screw hole [M] | Nominal bore diameter                            | Bore diameter [d1 · d2]           | Keyway width [W1 · W2]                 | Keyway height [T1 · T2] | Set screw hole [M] |
| Tolerance                                             | H7, H8                            | E9                                     | +0.3<br>0               | —                  | Tolerance                                        | H7, H8                            | H9                                | +0.3<br>0               | —                  | Tolerance                                         | H7, H8                            | JS9                                | +0.3<br>0               | —                  | Tolerance                                        | H7, H8                            | P9                                     | +0.3<br>0               | —                  |
| 8                                                     | 8 <sup>+0.022</sup> <sub>0</sub>  | —                                      | —                       | 2-M4               | 8H                                               | 8 <sup>+0.022</sup> <sub>0</sub>  | 3 <sup>+0.025</sup> <sub>0</sub>  | 9.4                     | 2-M4               | 8J                                                | 8 <sup>+0.022</sup> <sub>0</sub>  | 3 <sup>+0.0125</sup> <sub>0</sub>  | 9.4                     | 2-M4               | 8P                                               | 8 <sup>+0.022</sup> <sub>0</sub>  | 3 <sup>+0.006</sup> <sub>-0.031</sub>  | 9.4                     | 2-M4               |
| 9                                                     | 9 <sup>+0.022</sup> <sub>0</sub>  | —                                      | —                       | 2-M4               | 9H                                               | 9 <sup>+0.022</sup> <sub>0</sub>  | 3 <sup>+0.025</sup> <sub>0</sub>  | 10.4                    | 2-M4               | 9J                                                | 9 <sup>+0.022</sup> <sub>0</sub>  | 3 <sup>+0.0125</sup> <sub>0</sub>  | 10.4                    | 2-M4               | 9P                                               | 9 <sup>+0.022</sup> <sub>0</sub>  | 3 <sup>+0.006</sup> <sub>-0.031</sub>  | 10.4                    | 2-M4               |
| 10                                                    | 10 <sup>+0.022</sup> <sub>0</sub> | —                                      | —                       | 2-M4               | 10H                                              | 10 <sup>+0.022</sup> <sub>0</sub> | 3 <sup>+0.025</sup> <sub>0</sub>  | 11.4                    | 2-M4               | 10J                                               | 10 <sup>+0.022</sup> <sub>0</sub> | 3 <sup>+0.0125</sup> <sub>0</sub>  | 11.4                    | 2-M4               | 10P                                              | 10 <sup>+0.022</sup> <sub>0</sub> | 3 <sup>+0.006</sup> <sub>-0.031</sub>  | 11.4                    | 2-M4               |
| 11                                                    | 11 <sup>+0.018</sup> <sub>0</sub> | —                                      | —                       | 2-M4               | 11H                                              | 11 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.030</sup> <sub>0</sub>  | 12.8                    | 2-M4               | 11J                                               | 11 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.0150</sup> <sub>0</sub>  | 12.8                    | 2-M4               | 11P                                              | 11 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.012</sup> <sub>-0.042</sub>  | 12.8                    | 2-M4               |
| 12                                                    | 12 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.050</sup> <sub>+0.020</sub>  | 13.5                    | 2-M4               | 12H                                              | 12 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.030</sup> <sub>0</sub>  | 13.8                    | 2-M4               | 12J                                               | 12 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.0150</sup> <sub>0</sub>  | 13.8                    | 2-M4               | 12P                                              | 12 <sup>+0.018</sup> <sub>0</sub> | 4 <sup>+0.012</sup> <sub>-0.042</sub>  | 13.8                    | 2-M4               |
| 14                                                    | 14 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 16.0                    | 2-M4               | 14H                                              | 14 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.030</sup> <sub>0</sub>  | 16.3                    | 2-M4               | 14J                                               | 14 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.0150</sup> <sub>0</sub>  | 16.3                    | 2-M4               | 14P                                              | 14 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.012</sup> <sub>-0.042</sub>  | 16.3                    | 2-M4               |
| 15                                                    | 15 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 17.0                    | 2-M4               | 15H                                              | 15 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.030</sup> <sub>0</sub>  | 17.3                    | 2-M4               | 15J                                               | 15 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.0150</sup> <sub>0</sub>  | 17.3                    | 2-M4               | 15P                                              | 15 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.012</sup> <sub>-0.042</sub>  | 17.3                    | 2-M4               |
| 16                                                    | 16 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 18.0                    | 2-M4               | 16H                                              | 16 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.030</sup> <sub>0</sub>  | 18.3                    | 2-M4               | 16J                                               | 16 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.0150</sup> <sub>0</sub>  | 18.3                    | 2-M4               | 16P                                              | 16 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.012</sup> <sub>-0.042</sub>  | 18.3                    | 2-M4               |
| 17                                                    | 17 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 19.0                    | 2-M4               | 17H                                              | 17 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.030</sup> <sub>0</sub>  | 19.3                    | 2-M4               | 17J                                               | 17 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.0150</sup> <sub>0</sub>  | 19.3                    | 2-M4               | 17P                                              | 17 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.012</sup> <sub>-0.042</sub>  | 19.3                    | 2-M4               |
| 18                                                    | 18 <sup>+0.018</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 20.0                    | 2-M4               | 18H                                              | 18 <sup>+0.018</sup> <sub>0</sub> | 6 <sup>+0.030</sup> <sub>0</sub>  | 20.8                    | 2-M5               | 18J                                               | 18 <sup>+0.018</sup> <sub>0</sub> | 6 <sup>+0.0150</sup> <sub>0</sub>  | 20.8                    | 2-M5               | 18P                                              | 18 <sup>+0.018</sup> <sub>0</sub> | 6 <sup>+0.012</sup> <sub>-0.042</sub>  | 20.8                    | 2-M5               |
| 19                                                    | 19 <sup>+0.021</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 21.0                    | 2-M4               | 19H                                              | 19 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.030</sup> <sub>0</sub>  | 21.8                    | 2-M5               | 19J                                               | 19 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.0150</sup> <sub>0</sub>  | 21.8                    | 2-M5               | 19P                                              | 19 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.012</sup> <sub>-0.042</sub>  | 21.8                    | 2-M5               |
| 20                                                    | 20 <sup>+0.021</sup> <sub>0</sub> | 5 <sup>+0.050</sup> <sub>+0.020</sub>  | 22.0                    | 2-M4               | 20H                                              | 20 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.030</sup> <sub>0</sub>  | 22.8                    | 2-M5               | 20J                                               | 20 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.0150</sup> <sub>0</sub>  | 22.8                    | 2-M5               | 20P                                              | 20 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.012</sup> <sub>-0.042</sub>  | 22.8                    | 2-M5               |
| 22                                                    | 22 <sup>+0.021</sup> <sub>0</sub> | 7 <sup>+0.061</sup> <sub>+0.025</sub>  | 25.0                    | 2-M6               | 22H                                              | 22 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.030</sup> <sub>0</sub>  | 24.8                    | 2-M5               | 22J                                               | 22 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.0150</sup> <sub>0</sub>  | 24.8                    | 2-M5               | 22P                                              | 22 <sup>+0.021</sup> <sub>0</sub> | 6 <sup>+0.012</sup> <sub>-0.042</sub>  | 24.8                    | 2-M5               |
| 24                                                    | 24 <sup>+0.021</sup> <sub>0</sub> | 7 <sup>+0.061</sup> <sub>+0.025</sub>  | 27.0                    | 2-M6               | 24H                                              | 24 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 27.3                    | 2-M6               | 24J                                               | 24 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.0180</sup> <sub>0</sub>  | 27.3                    | 2-M6               | 24P                                              | 24 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.015</sup> <sub>-0.051</sub>  | 27.3                    | 2-M6               |
| 25                                                    | 25 <sup>+0.021</sup> <sub>0</sub> | 7 <sup>+0.061</sup> <sub>+0.025</sub>  | 28.0                    | 2-M6               | 25H                                              | 25 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 28.3                    | 2-M6               | 25J                                               | 25 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.0180</sup> <sub>0</sub>  | 28.3                    | 2-M6               | 25P                                              | 25 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.015</sup> <sub>-0.051</sub>  | 28.3                    | 2-M6               |
| 28                                                    | 28 <sup>+0.021</sup> <sub>0</sub> | 7 <sup>+0.061</sup> <sub>+0.025</sub>  | 31.0                    | 2-M6               | 28H                                              | 28 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 31.3                    | 2-M6               | 28J                                               | 28 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.0180</sup> <sub>0</sub>  | 31.3                    | 2-M6               | 28P                                              | 28 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.015</sup> <sub>-0.051</sub>  | 31.3                    | 2-M6               |
| 30                                                    | 30 <sup>+0.021</sup> <sub>0</sub> | 7 <sup>+0.061</sup> <sub>+0.025</sub>  | 33.0                    | 2-M6               | 30H                                              | 30 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 33.3                    | 2-M6               | 30J                                               | 30 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.0180</sup> <sub>0</sub>  | 33.3                    | 2-M6               | 30P                                              | 30 <sup>+0.021</sup> <sub>0</sub> | 8 <sup>+0.015</sup> <sub>-0.051</sub>  | 33.3                    | 2-M6               |
| 32                                                    | 32 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.061</sup> <sub>+0.025</sub> | 35.5                    | 2-M8               | 32H                                              | 32 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.036</sup> <sub>0</sub> | 35.3                    | 2-M8               | 32J                                               | 32 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.0180</sup> <sub>0</sub> | 35.3                    | 2-M8               | 32P                                              | 32 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.015</sup> <sub>-0.051</sub> | 35.3                    | 2-M8               |
| 35                                                    | 35 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.061</sup> <sub>+0.025</sub> | 38.5                    | 2-M8               | 35H                                              | 35 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.036</sup> <sub>0</sub> | 38.3                    | 2-M8               | 35J                                               | 35 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.0180</sup> <sub>0</sub> | 38.3                    | 2-M8               | 35P                                              | 35 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.015</sup> <sub>-0.051</sub> | 38.3                    | 2-M8               |
| 38                                                    | 38 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.061</sup> <sub>+0.025</sub> | 41.5                    | 2-M8               | 38H                                              | 38 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.036</sup> <sub>0</sub> | 41.3                    | 2-M8               | 38J                                               | 38 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.0180</sup> <sub>0</sub> | 41.3                    | 2-M8               | 38P                                              | 38 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.015</sup> <sub>-0.051</sub> | 41.3                    | 2-M8               |
| 40                                                    | 40 <sup>+0.025</sup> <sub>0</sub> | 10 <sup>+0.061</sup> <sub>+0.025</sub> | 43.5                    | 2-M8               | 40H                                              | 40 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.043</sup> <sub>0</sub> | 43.3                    | 2-M8               | 40J                                               | 40 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.0215</sup> <sub>0</sub> | 43.3                    | 2-M8               | 40P                                              | 40 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.018</sup> <sub>-0.061</sub> | 43.3                    | 2-M8               |
| 42                                                    | 42 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.075</sup> <sub>+0.032</sub> | 45.5                    | 2-M8               | 42H                                              | 42 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.043</sup> <sub>0</sub> | 45.3                    | 2-M8               | 42J                                               | 42 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.0215</sup> <sub>0</sub> | 45.3                    | 2-M8               | 42P                                              | 42 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.018</sup> <sub>-0.061</sub> | 45.3                    | 2-M8               |
| 45                                                    | 45 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.075</sup> <sub>+0.032</sub> | 48.5                    | 2-M8               | 45H                                              | 45 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.043</sup> <sub>0</sub> | 48.8                    | 2-M10              | 45J                                               | 45 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.0215</sup> <sub>0</sub> | 48.8                    | 2-M10              | 45P                                              | 45 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.018</sup> <sub>-0.061</sub> | 48.8                    | 2-M10              |
| 48                                                    | 48 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.075</sup> <sub>+0.032</sub> | 51.5                    | 2-M8               | 48H                                              | 48 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.043</sup> <sub>0</sub> | 51.8                    | 2-M10              | 48J                                               | 48 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.0215</sup> <sub>0</sub> | 51.8                    | 2-M10              | 48P                                              | 48 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.018</sup> <sub>-0.061</sub> | 51.8                    | 2-M10              |
| 50                                                    | 50 <sup>+0.025</sup> <sub>0</sub> | 12 <sup>+0.075</sup> <sub>+0.032</sub> | 53.5                    | 2-M8               | 50H                                              | 50 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.043</sup> <sub>0</sub> | 53.8                    | 2-M10              | 50J                                               | 50 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.0215</sup> <sub>0</sub> | 53.8                    | 2-M10              | 50P                                              | 50 <sup>+0.025</sup> <sub>0</sub> | 14 <sup>+0.018</sup> <sub>-0.061</sub> | 53.8                    | 2-M10              |
| 55                                                    | 55 <sup>+0.030</sup> <sub>0</sub> | 15 <sup>+0.075</sup> <sub>+0.032</sub> | 60.0                    | 2-M10              | 55H                                              | 55 <sup>+0.030</sup> <sub>0</sub> | 16 <sup>+0.043</sup> <sub>0</sub> | 59.3                    | 2-M10              | 55J                                               | 55 <sup>+0.030</sup> <sub>0</sub> | 16 <sup>+0.0215</sup> <sub>0</sub> | 59.3                    | 2-M10              | 55P                                              | 55 <sup>+0.030</sup> <sub>0</sub> | 16 <sup>+0.018</sup> <sub>-0.061</sub> | 59.3                    | 2-M10              |
| 56                                                    | 56 <sup>+0.030</sup> <sub>0</sub> | 15 <sup>+0.075</sup> <sub>+0.032</sub> | 61.0                    | 2-M10              | 56H                                              | 56 <sup>+0.030</sup> <sub>0</sub> | 16 <sup>+0.043</sup> <sub>0</sub> | 60.3                    | 2-M10              | 56J                                               | 56 <sup>+0.030</sup> <sub>0</sub> | 16 <sup>+0.0215</sup> <sub>0</sub> | 60.3                    | 2-M10              | 56P                                              | 56 <sup>+0.030</sup> <sub>0</sub> | 16 <sup>+0.018</sup> <sub>-0.061</sub> | 60.3                    | 2-M10              |
| 60                                                    | 60 <sup>+0.030</sup> <sub>0</sub> | 15 <sup>+0.075</sup> <sub>+0.032</sub> | 65.0                    | 2-M10              | 60H                                              | 60 <sup>+0.030</sup> <sub>0</sub> | 18 <sup>+0.043</sup> <sub>0</sub> | 64.4                    | 2-M10              | 60J                                               | 60 <sup>+0.030</sup> <sub>0</sub> | 18 <sup>+0.0215</sup> <sub>0</sub> | 64.4                    | 2-M10              | 60P                                              | 60 <sup>+0.030</sup> <sub>0</sub> | 18 <sup>+0.018</sup> <sub>-0.061</sub> | 64.4                    | 2-M10              |

## Models compliant with the new motor standards

| Nominal bore diameter | Bore diameter [d1 · d2]                | Keyway width [W1 · W2]            | Keyway height [T1 · T2] | Set screw hole [M] |
|-----------------------|----------------------------------------|-----------------------------------|-------------------------|--------------------|
| Tolerance             | G7, F7                                 | H9                                | +0.3<br>0               | —                  |
| 14N                   | 14 <sup>+0.024</sup> <sub>+0.006</sub> | 5 <sup>+0.030</sup> <sub>0</sub>  | 16.3                    | 2-M4               |
| 19N                   | 19 <sup>+0.028</sup> <sub>+0.007</sub> | 6 <sup>+0.030</sup> <sub>0</sub>  | 21.8                    | 2-M5               |
| 24N                   | 24 <sup>+0.028</sup> <sub>+0.007</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 27.3                    | 2-M6               |
| 28N                   | 28 <sup>+0.028</sup> <sub>+0.007</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 31.3                    | 2-M6               |
| 38N                   | 38 <sup>+0.050</sup> <sub>+0.025</sub> | 10 <sup>+0.036</sup> <sub>0</sub> | 41.3                    | 2-M8               |
| 42N                   | 42 <sup>+0.050</sup> <sub>+0.025</sub> | 12 <sup>+0.043</sup> <sub>0</sub> | 45.3                    | 2-M8               |
| 48N                   | 48 <sup>+0.050</sup> <sub>+0.025</sub> | 14 <sup>+0.043</sup> <sub>0</sub> | 51.8                    | 2-M10              |
| 55N                   | 55 <sup>+0.060</sup> <sub>+0.030</sub> | 16 <sup>+0.043</sup> <sub>0</sub> | 59.3                    | 2-M10              |
| 60N                   | 60 <sup>+0.060</sup> <sub>+0.030</sub> | 18 <sup>+0.043</sup> <sub>0</sub> | 64.4                    | 2-M10              |

## Distance from Set Screw Edge

| Model  | Position of set screw [mm] |
|--------|----------------------------|
| SFS-05 | 7                          |
| SFS-06 | 9                          |
| SFS-08 | 10                         |
| SFS-09 | 10                         |
| SFS-10 | 12                         |
| SFS-12 | 12                         |
| SFS-14 | 15                         |

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

## MODELS

SFC

SFS

SFF

SFM

SFH

# SFS Models

## Options Frictional coupling hub

The hub contains a frictional coupling element enabling more accurate installation.

### Specifications

| Model         | Rated torque [N·m] | Misalignment  |             |            | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Axial stiffness [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] |
|---------------|--------------------|---------------|-------------|------------|------------------------------------------|-------------------------------|------------------------|----------------------------------------|-----------|
|               |                    | Parallel [mm] | Angular [°] | Axial [mm] |                                          |                               |                        |                                        |           |
| SFS-06S-□M-□M | 40                 | —             | 1           | ± 0.8      | 5000                                     | 29000                         | 45                     | $0.30 \times 10^{-3}$                  | 0.70      |
| SFS-08S-□M-□M | 80                 | —             | 1           | ± 1.0      | 5000                                     | 83000                         | 60                     | $0.93 \times 10^{-3}$                  | 1.30      |
| SFS-09S-□M-□M | 180                | —             | 1           | ± 1.2      | 5000                                     | 170000                        | 122                    | $1.80 \times 10^{-3}$                  | 1.80      |
| SFS-10S-□M-□M | 250                | —             | 1           | ± 1.4      | 5000                                     | 250000                        | 160                    | $2.70 \times 10^{-3}$                  | 2.30      |
| SFS-12S-□M-□M | 450                | —             | 1           | ± 1.6      | 5000                                     | 430000                        | 197                    | $6.80 \times 10^{-3}$                  | 4.10      |
| SFS-14S-□M-□M | 580                | —             | 1           | ± 1.8      | 5000                                     | 780000                        | 313                    | $14.01 \times 10^{-3}$                 | 6.40      |

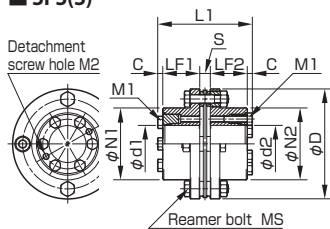
| Model         | Rated torque [N·m] | Misalignment  |                 |            | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Axial stiffness [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] |
|---------------|--------------------|---------------|-----------------|------------|------------------------------------------|-------------------------------|------------------------|----------------------------------------|-----------|
|               |                    | Parallel [mm] | Angular [°]     | Axial [mm] |                                          |                               |                        |                                        |           |
| SFS-06W-□M-□M | 40                 | 0.3           | 1 (On one side) | ± 1.6      | 5000                                     | 14000                         | 22                     | $0.41 \times 10^{-3}$                  | 0.90      |
| SFS-08W-□M-□M | 80                 | 0.3           | 1 (On one side) | ± 2.0      | 5000                                     | 41000                         | 30                     | $1.16 \times 10^{-3}$                  | 1.60      |
| SFS-09W-□M-□M | 180                | 0.5           | 1 (On one side) | ± 2.4      | 5000                                     | 85000                         | 61                     | $2.40 \times 10^{-3}$                  | 2.50      |
| SFS-10W-□M-□M | 250                | 0.5           | 1 (On one side) | ± 2.8      | 5000                                     | 125000                        | 80                     | $3.70 \times 10^{-3}$                  | 3.00      |
| SFS-12W-□M-□M | 450                | 0.6           | 1 (On one side) | ± 3.2      | 4400                                     | 215000                        | 98                     | $9.50 \times 10^{-3}$                  | 5.60      |
| SFS-14W-□M-□M | 580                | 0.7           | 1 (On one side) | ± 3.6      | 3800                                     | 390000                        | 156                    | $19.11 \times 10^{-3}$                 | 8.60      |

| Model         | Rated torque [N·m] | Misalignment  |                 |            | Max. rotation speed [min <sup>-1</sup> ] | Torsional stiffness [N·m/rad] | Axial stiffness [N/mm] | Moment of inertia [kg·m <sup>2</sup> ] | Mass [kg] |
|---------------|--------------------|---------------|-----------------|------------|------------------------------------------|-------------------------------|------------------------|----------------------------------------|-----------|
|               |                    | Parallel [mm] | Angular [°]     | Axial [mm] |                                          |                               |                        |                                        |           |
| SFS-06G-□M-□M | 40                 | 0.5           | 1 (On one side) | ± 1.6      | 5000                                     | 14000                         | 22                     | $0.55 \times 10^{-3}$                  | 1.10      |
| SFS-08G-□M-□M | 80                 | 0.5           | 1 (On one side) | ± 2.0      | 5000                                     | 41000                         | 30                     | $1.56 \times 10^{-3}$                  | 2.00      |
| SFS-09G-□M-□M | 180                | 0.6           | 1 (On one side) | ± 2.4      | 5000                                     | 85000                         | 61                     | $3.10 \times 10^{-3}$                  | 2.80      |
| SFS-10G-□M-□M | 250                | 0.6           | 1 (On one side) | ± 2.8      | 5000                                     | 125000                        | 80                     | $4.70 \times 10^{-3}$                  | 3.50      |
| SFS-12G-□M-□M | 450                | 0.8           | 1 (On one side) | ± 3.2      | 5000                                     | 215000                        | 98                     | $12.10 \times 10^{-3}$                 | 6.50      |
| SFS-14G-□M-□M | 580                | 0.9           | 1 (On one side) | ± 3.6      | 5000                                     | 390000                        | 156                    | $25.31 \times 10^{-3}$                 | 10.10     |

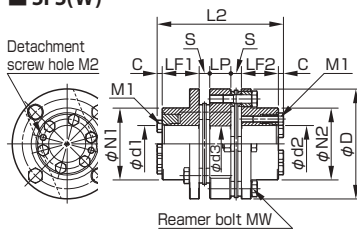
- Check the Standard Bore Diameters as there may be limitations on the rated torque caused by the holding power of the coupling shaft section.
- Higher rpm possible with balancing.
- The moment of inertia and mass are specified for the maximum bore diameter.

### Dimensions

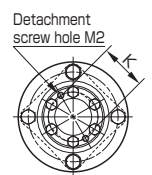
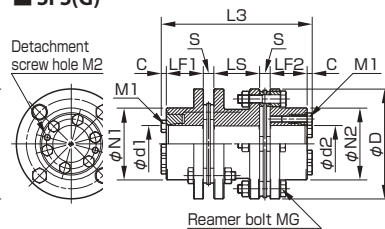
#### ■ SFS(S)



#### ■ SFS(W)



#### ■ SFS(G)



Unit [mm]

| Model  | d 1         | d 2         | D   | N1 | N2 | L1    | L2    | L3    | LF1 | LF2 | LP | LS | S  | C   | d3 | K  | MS       | MW       | MG       | M1   | M2   |
|--------|-------------|-------------|-----|----|----|-------|-------|-------|-----|-----|----|----|----|-----|----|----|----------|----------|----------|------|------|
| SFS-06 | 12·14·15    | 12·14·15    | 68  | 40 | 40 | 65.6  | 83.6  | 95.6  | 25  | 25  | 12 | 24 | 6  | 4.8 | 24 | 30 | 4-M6×25  | 8-M6×18  | 8-M6×25  | 4-M5 | 2-M5 |
| SFS-08 | 15·16·20·22 | 15·16·20·22 | 82  | 54 | 54 | 75.6  | 93.6  | 107.6 | 30  | 30  | 12 | 26 | 6  | 4.8 | 28 | 38 | 4-M6×29  | 8-M6×20  | 8-M6×29  | 4-M6 | 2-M6 |
| SFS-09 | 25·28       | 25·28       | 94  | 58 | 58 | 77.6  | 107.6 | 115.6 | 30  | 30  | 22 | 30 | 8  | 4.8 | 32 | 42 | 4-M8×36  | 8-M8×27  | 8-M8×36  | 6-M6 | 2-M6 |
|        | 25·28       | 35          |     |    | 68 | 85.6  | 115.6 | 123.6 |     | 38  |    |    |    |     |    |    |          |          |          |      |      |
| SFS-10 | 25·28·30·35 | 25·28·30·35 | 104 | 68 | 68 | 89.6  | 119.6 | 129.6 | 35  | 35  | 20 | 30 | 10 | 4.8 | 34 | 48 | 4-M8×36  | 8-M8×27  | 8-M8×36  | 6-M6 | 2-M6 |
| SFS-12 | 30·35       | 30·35       | 126 | 78 | 78 | 101.6 | 137.6 | 150.6 | 40  | 40  | 25 | 38 | 11 | 5.3 | 40 | 54 | 4-M10×45 | 8-M10×32 | 8-M10×45 | 4-M8 | 2-M8 |
| SFS-14 | 35          | 35          | 144 | 88 | 88 | 112.6 | 154.6 | 170.6 | 45  | 45  | 30 | 46 | 12 | 5.3 | 46 | 61 | 4-M12×54 | 8-M12×38 | 8-M12×54 | 6-M8 | 2-M8 |

- Further dimensions for LS possible on request.

COUPLINGS

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SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
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|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

MODELS

|     |  |
|-----|--|
| SFC |  |
| SFS |  |
| SFF |  |
| SFM |  |
| SFH |  |

Standard Bore Diameter

| SFS-06                         |     | Standard bore diameter d2 [mm] |     |     |     |     |     |     |     |     |     |
|--------------------------------|-----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                |     | 12M                            | 14M | 15M | 16M | 20M | 22M | 25M | 28M | 30M | 35M |
| Standard bore diameter d1 [mm] | 12M | ●                              | ●   | ●   |     |     |     |     |     |     |     |
|                                | 14M |                                | ●   | ●   |     |     |     |     |     |     |     |
|                                | 15M |                                |     | ●   |     |     |     |     |     |     |     |
| SFS-08                         |     | Standard bore diameter d2 [mm] |     |     |     |     |     |     |     |     |     |
|                                |     | 12M                            | 14M | 15M | 16M | 20M | 22M | 25M | 28M | 30M | 35M |
| Standard bore diameter d1 [mm] | 15M |                                |     | ●   | ●   | ●   | ●   |     |     |     |     |
|                                | 16M |                                |     |     | ●   | ●   | ●   |     |     |     |     |
|                                | 20M |                                |     |     |     | ●   | ●   |     |     |     |     |
|                                | 22M |                                |     |     |     |     | ●   |     |     |     |     |
| SFS-09                         |     | Standard bore diameter d2 [mm] |     |     |     |     |     |     |     |     |     |
|                                |     | 12M                            | 14M | 15M | 16M | 20M | 22M | 25M | 28M | 30M | 35M |
| Standard bore diameter d1 [mm] | 25M |                                |     |     |     |     |     | ●   | ●   |     | ●   |
|                                | 28M |                                |     |     |     |     |     |     | ●   |     | ●   |
| SFS-10                         |     | Standard bore diameter d2 [mm] |     |     |     |     |     |     |     |     |     |
|                                |     | 12M                            | 14M | 15M | 16M | 20M | 22M | 25M | 28M | 30M | 35M |
| Standard bore diameter d1 [mm] | 25M |                                |     |     |     |     |     | ●   | ●   | ●   | ●   |
|                                | 28M |                                |     |     |     |     |     |     | ●   | ●   | ●   |
|                                | 30M |                                |     |     |     |     |     |     |     | ●   | ●   |
|                                | 35M |                                |     |     |     |     |     |     |     |     | ●   |
| SFS-12                         |     | Standard bore diameter d2 [mm] |     |     |     |     |     |     |     |     |     |
|                                |     | 12M                            | 14M | 15M | 16M | 20M | 22M | 25M | 28M | 30M | 35M |
| Standard bore diameter d1 [mm] | 30M |                                |     |     |     |     |     |     |     | 380 | 380 |
|                                | 35M |                                |     |     |     |     |     |     |     |     | ●   |
| SFS-14                         |     | Standard bore diameter d2 [mm] |     |     |     |     |     |     |     |     |     |
|                                |     | 12M                            | 14M | 15M | 16M | 20M | 22M | 25M | 28M | 30M | 35M |
| Standard bore diameter d1 [mm] | 35M |                                |     |     |     |     |     |     |     |     | ●   |

- Bore diameters marked with ● or numbers are supported as the standard bore diameters. Contact Miki Pulley regarding special arrangements which may be possible for other bore diameters.
- Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N·m].
- Where a bore diameter is not given above and is small, please check first; model may be restricted in its rated torque.
- The recommended processing tolerance for paired mounting shafts is the h7 (h6 or g6) class. However, for a bore diameter of ø35, the shaft tolerance is  $\begin{smallmatrix} +0.010 \\ -0.025 \end{smallmatrix}$ .

How to Place an Order

**SFS-10G-25M-30M LS=500**

Size  
Types  
S: Single element  
W: Double element  
G: Floating shaft  
Bore diameter d1 (Small diameter)  
Bore diameter d2 (Large diameter)  
Spacer length (only for type G)  
• Blank: Standard spacers.  
Affixing method  
M: Conical clamp hub

# SFF(SS) Types Single Element Type/Clamping

## Specifications

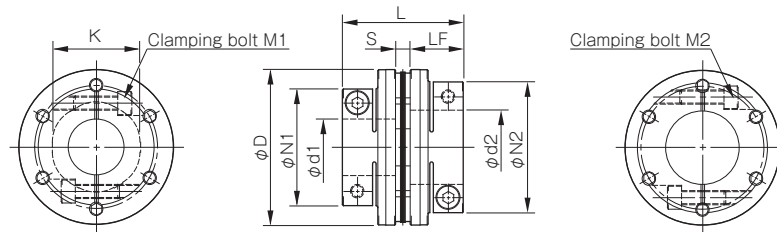
| Model                  | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed [min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|------------------------|-----------------------|---------------|-------------|------------|---------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                        |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                             |                                     |                           |                                              |              |
| SFF-040SS-□ B-□ B-8N   | 8                     | 0.02          | 1           | ± 0.2      | 18000                                       | 15000                               | 174                       | 0.03 × 10 <sup>-3</sup>                      | 0.17         |
| SFF-040SS-□ B-□ B-12N  | 12                    | 0.02          | 1           | ± 0.2      | 18000                                       | 15000                               | 174                       | 0.03 × 10 <sup>-3</sup>                      | 0.17         |
| SFF-050SS-□ B-□ B-25N  | 25                    | 0.02          | 1           | ± 0.3      | 18000                                       | 32000                               | 145                       | 0.10 × 10 <sup>-3</sup>                      | 0.36         |
| SFF-060SS-□ B-□ B-60N  | 60                    | 0.02          | 1           | ± 0.3      | 18000                                       | 104000                              | 399                       | 0.22 × 10 <sup>-3</sup>                      | 0.52         |
| SFF-060SS-□ B-□ B-80N  | 80                    | 0.02          | 1           | ± 0.3      | 18000                                       | 104000                              | 399                       | 0.23 × 10 <sup>-3</sup>                      | 0.49         |
| SFF-070SS-□ B-□ B-90N  | 90                    | 0.02          | 1           | ± 0.5      | 18000                                       | 240000                              | 484                       | 0.40 × 10 <sup>-3</sup>                      | 0.72         |
| SFF-070SS-□ B-□ B-100N | 100                   | 0.02          | 1           | ± 0.5      | 18000                                       | 240000                              | 484                       | 0.42 × 10 <sup>-3</sup>                      | 0.67         |
| SFF-080SS-□ B-□ B-150N | 150                   | 0.02          | 1           | ± 0.5      | 17000                                       | 120000                              | 96                        | 0.79 × 10 <sup>-3</sup>                      | 1.04         |
| SFF-080SS-□ B-□ B-200N | 200                   | 0.02          | 1           | ± 0.5      | 17000                                       | 310000                              | 546                       | 1.25 × 10 <sup>-3</sup>                      | 1.40         |
| SFF-090SS-□ B-□ B-250N | 250                   | 0.02          | 1           | ± 0.6      | 15000                                       | 520000                              | 321                       | 1.54 × 10 <sup>-3</sup>                      | 1.62         |
| SFF-090SS-□ B-□ B-300N | 300                   | 0.02          | 1           | ± 0.6      | 15000                                       | 520000                              | 321                       | 1.58 × 10 <sup>-3</sup>                      | 1.53         |
| SFF-100SS-□ B-□ B-450N | 450                   | 0.02          | 1           | ± 0.65     | 13000                                       | 740000                              | 540                       | 3.27 × 10 <sup>-3</sup>                      | 2.53         |
| SFF-120SS-□ B-□ B-600N | 600                   | 0.02          | 1           | ± 0.8      | 11000                                       | 970000                              | 360                       | 6.90 × 10 <sup>-3</sup>                      | 3.78         |

• Higher rpm possible with balancing.

• Torsional stiffness values given are measured values for the flexible element alone.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



| Model                  | d1<br>[mm]                                 | d2<br>[mm]                                  | D<br>[mm] | L<br>[mm] | N1 • N2<br>[mm] | LF<br>[mm] | S<br>[mm] | K<br>[mm] | M1 • M2 Qty –<br>Nominal dia. | M1 • M2<br>Tightening<br>torque [N·m] |
|------------------------|--------------------------------------------|---------------------------------------------|-----------|-----------|-----------------|------------|-----------|-----------|-------------------------------|---------------------------------------|
| SFF-040SS-□ B-□ B-8N   | 8 • 9 • 9.525                              | 8 • 9 • 9.525 • 10 • 11 • 12 • 14 • 15 • 16 | 38        | 38.9      | 33              | 17.5       | 3.9       | 17        | 2-M4                          | 3.4                                   |
| SFF-040SS-□ B-□ B-12N  | 10 • 11 • 12 • 14 • 15 • 16                | 10 • 11 • 12 • 14 • 15 • 16                 | 38        | 38.9      | 33              | 17.5       | 3.9       | 17        | 2-M4                          | 3.4                                   |
| SFF-050SS-□ B-□ B-25N  | 10 • 11 • 12 • 14 • 15 • 16 • 17 • 18 • 19 | 10 • 11 • 12 • 14 • 15 • 16 • 17 • 18 • 19  | 48        | 48.4      | 42              | 21.5       | 5.4       | 20        | 2-M5                          | 7                                     |
| SFF-060SS-□ B-□ B-60N  | 12 • 14 • 15 • 16 • 17 • 18 • 19           | 12 • 14 • 15 • 16 • 17 • 18 • 19 • 20 • 22  | 58        | 53.4      | 44              | 24         | 5.4       | 32        | 2-M6                          | 14                                    |
|                        | —                                          | 24 • 25 • 28                                |           |           | 48              |            |           |           | 2-M5                          | 7                                     |
|                        | —                                          | 30                                          |           |           | 52              |            |           |           | 2-M6                          | 14                                    |
| SFF-060SS-□ B-□ B-80N  | 20 • 22                                    | 20 • 22                                     | 58        | 53.4      | 44              | 24         | 5.4       | 32        | 2-M6                          | 14                                    |
|                        | 24 • 25 • 28                               | 24 • 25 • 28                                |           |           | 48              |            |           |           | 2-M5                          | 7                                     |
|                        | 30                                         | 30                                          |           |           | 52              |            |           |           | 2-M6                          | 14                                    |
| SFF-070SS-□ B-□ B-90N  | 18 • 19                                    | 18 • 19 • 20 • 22 • 24 • 25                 | 68        | 55.9      | 47              | 25         | 5.9       | 38        | 2-M6                          | 14                                    |
|                        | —                                          | 28 • 30 • 32 • 35                           |           |           | 56              |            |           |           | 2-M6                          | 14                                    |
| SFF-070SS-□ B-□ B-100N | 20 • 22 • 24 • 25                          | 20 • 22 • 24 • 25                           | 68        | 55.9      | 47              | 25         | 5.9       | 38        | 2-M6                          | 14                                    |
|                        | 28 • 30 • 32 • 35                          | 28 • 30 • 32 • 35                           |           |           | 56              |            |           |           | 2-M6                          | 14                                    |
| SFF-080SS-□ B-□ B-150N | 22 • 24 • 25                               | 22 • 24 • 25                                | 78        | 68.3      | 53              | 30         | 8.3       | 37        | 2-M8                          | 34                                    |
|                        | 28 • 30 • 32 • 35                          | 28 • 30 • 32 • 35                           |           |           | 56              |            |           |           | 2-M6                          | 14                                    |
| SFF-080SS-□ B-□ B-200N | 22 • 24 • 25                               | 22 • 24 • 25                                | 78        | 67.7      | 53              | 30         | 7.7       | 42        | 2-M8                          | 34                                    |
|                        | 28 • 30 • 32 • 35                          | 28 • 30 • 32 • 35                           |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
|                        | 38                                         | 38                                          |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
| SFF-090SS-□ B-□ B-250N | 25 • 28                                    | 25 • 28 • 30 • 32                           | 88        | 68.3      | 66              | 30         | 8.3       | 50        | 2-M8                          | 34                                    |
|                        | —                                          | 35 • 38 • 40 • 42                           |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
| SFF-090SS-□ B-□ B-300N | 30 • 32                                    | 30 • 32                                     | 88        | 68.3      | 66              | 30         | 8.3       | 50        | 2-M8                          | 34                                    |
|                        | 35 • 38 • 40 • 42                          | 35 • 38 • 40 • 42                           |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
| SFF-100SS-□ B-□ B-450N | 32 • 35 • 38 • 40 • 42 • 45 • 48           | 32 • 35 • 38 • 40 • 42 • 45 • 48            | 98        | 90.2      | 84              | 40         | 10.2      | 56        | 2-M10                         | 68                                    |
| SFF-120SS-□ B-□ B-600N | 32 • 35 • 38 • 40 • 42 • 45                | 32 • 35 • 38 • 40 • 42 • 45                 | 118       | 90.2      | 84              | 40         | 10.2      | 68        | 2-M10                         | 68                                    |
|                        | 48 • 50 • 55                               | 48 • 50 • 55                                |           |           | 100             |            |           |           | 2-M10                         | 68                                    |



COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

Standard Bore Diameter

| Model                    | Nominal diameter | Standard bore diameter d1 • d2 [mm] |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------|------------------|-------------------------------------|---|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
|                          |                  | 8                                   | 9 | 9.525 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 |  |
| SFF-040SS- □ B- □ B-8N   | d1               | ●                                   | ● | ●     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               | ●                                   | ● | ●     | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| SFF-040SS- □ B- □ B-12N  | d1               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| SFF-050SS- □ B- □ B-25N  | d1               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| SFF-060SS- □ B- □ B-60N  | d1               |                                     |   |       |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |
| SFF-060SS- □ B- □ B-80N  | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |  |
| SFF-070SS- □ B- □ B-90N  | d1               |                                     |   |       |    |    |    |    |    |    |    |    | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |
| SFF-070SS- □ B- □ B-100N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |  |
| SFF-080SS- □ B- □ B-150N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |  |
| SFF-080SS- □ B- □ B-200N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |  |
| SFF-090SS- □ B- □ B-250N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |  |
| SFF-090SS- □ B- □ B-300N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |  |
| SFF-100SS- □ B- □ B-450N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |
| SFF-120SS- □ B- □ B-600N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |

How to Place an Order

SFF-080SS-25BK-30BK-200N

Size  
Type  
S: Single element  
Material  
S: Steel

Bore dia. d1  
(Small dia.)

Bore dia. d2  
(Large dia.)

Nominal rated torque  
(Refer to the specifications)

Countershaft tolerance  
Blank: h7, K: k6, M: m6, J: j6, S: 35<sup>+0.010</sup><sub>0</sub>

Affixing method  
B: Clamp  
· Tapered shaft option: specify CN for d2 nominal diameter.

SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

MODELS

SFC

SFS

SFF

SFM

SFH

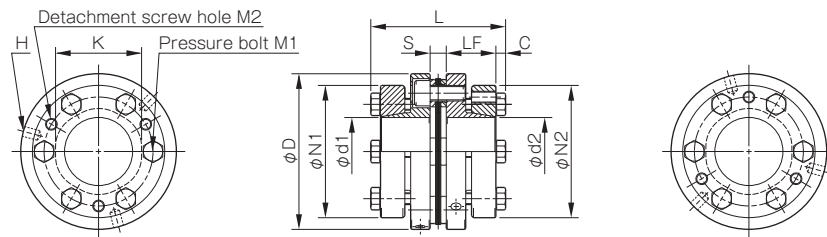
# SFF(SS) Types Single Element Type/Conical Clamp Hub

## Specifications

| Model                     | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|---------------------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                           |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFF-070SS- □ K- □ K-100N  | 100                   | 0.2           | 1           | ± 0.5      | 18000                                          | 240000                              | 484                       | $0.66 \times 10^{-3}$                        | 0.92         |
| SFF-080SS- □ K- □ K-150N  | 150                   | 0.2           | 1           | ± 0.5      | 17000                                          | 120000                              | 96                        | $1.21 \times 10^{-3}$                        | 1.03         |
| SFF-080SS- □ K- □ K-200N  | 200                   | 0.2           | 1           | ± 0.5      | 17000                                          | 310000                              | 546                       | $1.11 \times 10^{-3}$                        | 1.26         |
| SFF-090SS- □ K- □ K-300N  | 300                   | 0.2           | 1           | ± 0.6      | 15000                                          | 520000                              | 321                       | $1.75 \times 10^{-3}$                        | 1.48         |
| SFF-100SS- □ K- □ K-450N  | 450                   | 0.2           | 1           | ± 0.65     | 13000                                          | 740000                              | 540                       | $2.56 \times 10^{-3}$                        | 1.87         |
| SFF-120SS- □ K- □ K-600N  | 600                   | 0.2           | 1           | ± 0.8      | 11000                                          | 970000                              | 360                       | $5.33 \times 10^{-3}$                        | 2.50         |
| SFF-140SS- □ K- □ K-800N  | 800                   | 0.2           | 1           | ± 1.0      | 10000                                          | 1400000                             | 360                       | $10.28 \times 10^{-3}$                       | 4.66         |
| SFF-140SS- □ K- □ K-1000N | 1000                  | 0.2           | 1           | ± 1.0      | 10000                                          | 1400000                             | 360                       | $14.70 \times 10^{-3}$                       | 5.01         |

- Higher rpm possible with balancing.
- Torsional stiffness values given are measured values for the flexible element alone.
- The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



| Model                     | d1<br>[mm]        | d2<br>[mm]        | D<br>[mm] | L<br>[mm] | N1 · N2<br>[mm] | LF<br>[mm] | S<br>[mm] | C<br>[mm] | K<br>[mm] | H<br>[mm] | M1 Qty –<br>Nominal dia. | M1 Tightening<br>torque [N·m] | M2 Qty –<br>Nominal dia. |
|---------------------------|-------------------|-------------------|-----------|-----------|-----------------|------------|-----------|-----------|-----------|-----------|--------------------------|-------------------------------|--------------------------|
| SFF-070SS- □ K- □ K-100N  | 18 · 19           | 18 · 19           | 68        | 62.9      | 53              | 23.5       | 5.9       | 5         | 38        | 3-5.1     | 6-M6                     | 10                            | 3-M6                     |
|                           | 20 · 22 · 24 · 25 | 20 · 22 · 24 · 25 |           |           | 58              |            |           |           |           |           |                          |                               |                          |
|                           | 28 · 30           | 28 · 30           |           |           | 63              |            |           |           |           |           |                          |                               |                          |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
| SFF-080SS- □ K- □ K-150N  | 22 · 24 · 25      | 22 · 24 · 25      | 78        | 69.3      | 58              | 25.5       | 8.3       | 5         | 37        | 4-5.1     | 4-M6                     | 10                            | 2-M6                     |
|                           | 28 · 30           | 28 · 30           |           |           | 63              |            |           |           |           |           |                          |                               |                          |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                           | —                 | 38                |           |           | 73              |            |           |           |           |           |                          |                               |                          |
| SFF-080SS- □ K- □ K-200N  | 22 · 24 · 25      | 22 · 24 · 25      | 78        | 68.7      | 58              | 25.5       | 7.7       | 5         | 42        | 3-5.1     | 6-M6                     | 10                            | 3-M6                     |
|                           | 28 · 30           | 28 · 30           |           |           | 63              |            |           |           |           |           |                          |                               |                          |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                           | 38                | 38                |           |           | 73              |            |           |           |           |           |                          |                               |                          |
| SFF-090SS- □ K- □ K-300N  | 28 · 30           | 28 · 30           | 88        | 69.3      | 63              | 25.5       | 8.3       | 5         | 50        | 3-6.8     | 6-M6                     | 10                            | 3-M6                     |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                           | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |           |           |           |           |                          |                               |                          |
|                           | 45                | 45                |           |           | 78              |            |           |           |           |           |                          |                               |                          |
| SFF-100SS- □ K- □ K-450N  | 48                | 48                | 98        | 75.2      | 83              | 27.5       | 10.2      | 5         | 56        | 3-6.8     | 6-M6                     | 10                            | 3-M6                     |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                           | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |           |           |           |           |                          |                               |                          |
|                           | 45                | 45                |           |           | 78              |            |           |           |           |           |                          |                               |                          |
| SFF-120SS- □ K- □ K-600N  | 48 · 50           | 48 · 50           | 118       | 75.2      | 83              | 27.5       | 10.2      | 5         | 68        | 3-6.8     | 6-M6                     | 10                            | 3-M6                     |
|                           | 35                | 35                |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                           | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |           |           |           |           |                          |                               |                          |
|                           | 45                | 45                |           |           | 78              |            |           |           |           |           |                          |                               |                          |
|                           | 48 · 50 · 52      | 48 · 50 · 52      |           |           | 83              |            |           |           |           |           |                          |                               |                          |
|                           | 55                | 55                |           |           | 88              |            |           |           |           |           |                          |                               |                          |
|                           | 60 · 62 · 65      | 60 · 62 · 65      |           |           | 98              |            |           |           |           |           |                          |                               |                          |
| SFF-140SS- □ K- □ K-800N  | —                 | 70                | 138       | 94.6      | 108             | 36.5       | 10.6      | 5.5       | 78        | 3-8.6     | 6-M8                     | 24                            | 3-M8                     |
|                           | 35 · 38           | 35 · 38           |           |           | 83              |            |           |           |           |           |                          |                               |                          |
|                           | 40 · 42 · 45      | 40 · 42 · 45      |           |           | 88              |            |           |           |           |           |                          |                               |                          |
|                           | —                 | 48 · 50 · 52      |           |           | 98              |            |           |           |           |           |                          |                               |                          |
|                           | —                 | 55 · 60           |           |           | 108             |            |           |           |           |           |                          |                               |                          |
|                           | —                 | 62 · 65 · 70      |           |           | 118             |            |           |           |           |           |                          |                               |                          |
|                           | —                 | 75 · 80           |           |           | 128             |            |           |           |           |           |                          |                               |                          |
| SFF-140SS- □ K- □ K-1000N | 48 · 50 · 52      | 48 · 50 · 52      | 138       | 94.6      | 98              | 36.5       | 10.6      | 5.5       | 78        | 3-8.6     | 6-M8                     | 24                            | 3-M8                     |
|                           | 55 · 60           | 55 · 60           |           |           | 108             |            |           |           |           |           |                          |                               |                          |
|                           | 62 · 65 · 70      | 62 · 65 · 70      |           |           | 118             |            |           |           |           |           |                          |                               |                          |
|                           | 75                | 75 · 80           |           |           | 128             |            |           |           |           |           |                          |                               |                          |

COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

SERIES

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br><b>SERVOFLEX</b>               |
|                              | Metal Coil Spring Couplings<br><b>BAUMANNFLEX</b>      |
|                              | Cardan Couplings<br><b>PARAFLEX</b>                    |
|                              | Sliced Couplings<br><b>ASK</b>                         |
| Rubber and Plastic Couplings | Rigid Couplings<br><b>STK</b>                          |
|                              | Jaw Couplings<br><b>MIKI PULLEY</b><br><b>STARFLEX</b> |
|                              | Jaw Couplings<br><b>SPRFLEX</b>                        |
|                              | Dual Rubber Couplings<br><b>STEPFLEX</b>               |
|                              | Oldham Couplings<br><b>KSK</b>                         |

MODELS

SFC

SFS

SFF

SFM

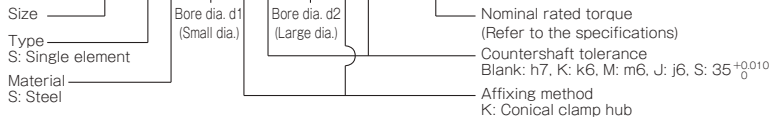
SFH

Standard Bore Diameter

| Model                     | Nominal diameter | Standard bore diameter d1 • d2 [mm] |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|---------------------------|------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
|                           |                  | 18                                  | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 52 | 55 | 60 | 62 | 65 | 70 | 75 | 80 |  |  |
| SFF-070SS- □ K- □ K-100N  | d1               | ●                                   | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               | ●                                   | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFF-080SS- □ K- □ K-150N  | d1               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFF-080SS- □ K- □ K-200N  | d1               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFF-090SS- □ K- □ K-300N  | d1               |                                     |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |  |  |
| SFF-100SS- □ K- □ K-450N  | d1               |                                     |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |  |
| SFF-120SS- □ K- □ K-600N  | d1               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |
| SFF-140SS- □ K- □ K-800N  | d1               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |
| SFF-140SS- □ K- □ K-1000N | d1               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |

How to Place an Order

SFF-080SS-25KK-30KK-200N



# SFF(DS) Types Double Element Type/Clamping

## Specifications

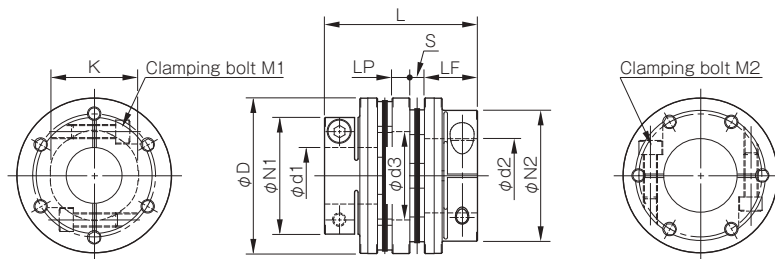
| Model                  | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|------------------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                        |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFF-040DS-□ B-□ B-8N   | 8                     | 0.10          | 2           | ± 0.4      | 14000                                          | 7500                                | 87                        | 0.04 × 10 <sup>-3</sup>                      | 0.22         |
| SFF-040DS-□ B-□ B-12N  | 12                    | 0.10          | 2           | ± 0.4      | 14000                                          | 7500                                | 87                        | 0.04 × 10 <sup>-3</sup>                      | 0.22         |
| SFF-050DS-□ B-□ B-25N  | 25                    | 0.20          | 2           | ± 0.6      | 14000                                          | 16000                               | 72.5                      | 0.13 × 10 <sup>-3</sup>                      | 0.46         |
| SFF-060DS-□ B-□ B-60N  | 60                    | 0.20          | 2           | ± 0.6      | 14000                                          | 52000                               | 199.5                     | 0.28 × 10 <sup>-3</sup>                      | 0.64         |
| SFF-060DS-□ B-□ B-80N  | 80                    | 0.20          | 2           | ± 0.6      | 14000                                          | 52000                               | 199.5                     | 0.29 × 10 <sup>-3</sup>                      | 0.61         |
| SFF-070DS-□ B-□ B-90N  | 90                    | 0.25          | 2           | ± 1.0      | 14000                                          | 120000                              | 242                       | 0.53 × 10 <sup>-3</sup>                      | 0.90         |
| SFF-070DS-□ B-□ B-100N | 100                   | 0.25          | 2           | ± 1.0      | 14000                                          | 120000                              | 242                       | 0.55 × 10 <sup>-3</sup>                      | 0.85         |
| SFF-080DS-□ B-□ B-150N | 150                   | 0.32          | 2           | ± 1.0      | 13000                                          | 60000                               | 48                        | 1.10 × 10 <sup>-3</sup>                      | 1.37         |
| SFF-080DS-□ B-□ B-200N | 200                   | 0.31          | 2           | ± 1.0      | 13000                                          | 155000                              | 273                       | 1.50 × 10 <sup>-3</sup>                      | 1.72         |
| SFF-090DS-□ B-□ B-250N | 250                   | 0.32          | 2           | ± 1.2      | 12000                                          | 260000                              | 160.5                     | 2.03 × 10 <sup>-3</sup>                      | 2.02         |
| SFF-090DS-□ B-□ B-300N | 300                   | 0.32          | 2           | ± 1.2      | 12000                                          | 260000                              | 160.5                     | 2.10 × 10 <sup>-3</sup>                      | 1.92         |
| SFF-100DS-□ B-□ B-450N | 450                   | 0.38          | 2           | ± 1.3      | 10000                                          | 370000                              | 270                       | 4.18 × 10 <sup>-3</sup>                      | 3.12         |
| SFF-120DS-□ B-□ B-600N | 600                   | 0.38          | 2           | ± 1.6      | 9000                                           | 485000                              | 180                       | 8.87 × 10 <sup>-3</sup>                      | 4.60         |

• Higher rpm possible with balancing.

• Torsional stiffness values given are measured values for the flexible element alone.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



| Model                  | d1<br>[mm]                                 | d2<br>[mm]                                  | D<br>[mm] | L<br>[mm] | N1 • N2<br>[mm] | LF<br>[mm] | LP<br>[mm] | S<br>[mm] | d3<br>[mm] | K<br>[mm] | M1 • M2 Qty<br>– Nominal<br>dia. | M1 • M2<br>Tightening<br>torque [N·m] |
|------------------------|--------------------------------------------|---------------------------------------------|-----------|-----------|-----------------|------------|------------|-----------|------------|-----------|----------------------------------|---------------------------------------|
| SFF-040DS-□ B-□ B-8N   | 8 • 9 • 9.525                              | 8 • 9 • 9.525 • 10 • 11 • 12 • 14 • 15 • 16 | 38        | 48.8      | 33              | 17.5       | 6          | 3.9       | 17         | 17        | 2-M4                             | 3.4                                   |
| SFF-040DS-□ B-□ B-12N  | 10 • 11 • 12 • 14 • 15 • 16                | 10 • 11 • 12 • 14 • 15 • 16                 | 38        | 48.8      | 33              | 17.5       | 6          | 3.9       | 17         | 17        | 2-M4                             | 3.4                                   |
| SFF-050DS-□ B-□ B-25N  | 10 • 11 • 12 • 14 • 15 • 16 • 17 • 18 • 19 | 10 • 11 • 12 • 14 • 15 • 16 • 17 • 18 • 19  | 48        | 60.8      | 42              | 21.5       | 7          | 5.4       | 20         | 20        | 2-M5                             | 7                                     |
| SFF-060DS-□ B-□ B-60N  | 12 • 14 • 15 • 16 • 17 • 18 • 19           | 12 • 14 • 15 • 16 • 17 • 18 • 19 • 20 • 22  | 58        | 65.8      | 44              | 24         | 7          | 5.4       | 31         | 32        | 2-M6                             | 14                                    |
|                        | —                                          | 24 • 25 • 28                                |           |           | 48              |            |            |           |            |           | 2-M5                             | 7                                     |
|                        | —                                          | 30                                          |           |           | 52              |            |            |           |            |           |                                  |                                       |
|                        | 20 • 22                                    | 20 • 22                                     |           |           | 44              |            |            |           |            |           | 2-M6                             | 14                                    |
| SFF-060DS-□ B-□ B-80N  | 24 • 25 • 28                               | 24 • 25 • 28                                | 58        | 65.8      | 48              | 24         | 7          | 5.4       | 31         | 32        | 2-M5                             | 7                                     |
|                        | 30                                         | 30                                          |           |           | 52              |            |            |           |            |           |                                  |                                       |
| SFF-070DS-□ B-□ B-90N  | 18 • 19                                    | 18 • 19 • 20 • 22 • 24 • 25                 | 68        | 69.8      | 47              | 25         | 8          | 5.9       | 37         | 38        | 2-M6                             | 14                                    |
|                        | —                                          | 28 • 30 • 32 • 35                           |           |           | 56              |            |            |           |            |           |                                  |                                       |
| SFF-070DS-□ B-□ B-100N | 20 • 22 • 24 • 25                          | 20 • 22 • 24 • 25                           | 68        | 69.8      | 47              | 25         | 8          | 5.9       | 37         | 38        | 2-M6                             | 14                                    |
|                        | 28 • 30 • 32 • 35                          | 28 • 30 • 32 • 35                           |           |           | 56              |            |            |           |            |           |                                  |                                       |
| SFF-080DS-□ B-□ B-150N | 22 • 24 • 25                               | 22 • 24 • 25                                | 78        | 86.6      | 53              | 30         | 10         | 8.3       | 40         | 37        | 2-M8                             | 34                                    |
|                        | 28 • 30 • 32 • 35                          | 28 • 30 • 32 • 35                           |           |           | 56              |            |            |           |            |           | 2-M6                             | 14                                    |
| SFF-080DS-□ B-□ B-200N | 22 • 24 • 25                               | 22 • 24 • 25                                | 78        | 85.4      | 53              | 30         | 10         | 7.7       | 40         | 42        | 2-M8                             | 34                                    |
|                        | 28 • 30 • 32 • 35                          | 28 • 30 • 32 • 35                           |           |           | 74              |            |            |           |            |           |                                  |                                       |
| SFF-090DS-□ B-□ B-250N | 25 • 28                                    | 25 • 28 • 30 • 32                           | 88        | 86.6      | 66              | 30         | 10         | 8.3       | 50         | 50        | 2-M8                             | 34                                    |
|                        | —                                          | 35 • 38 • 40 • 42                           |           |           | 74              |            |            |           |            |           |                                  |                                       |
| SFF-090DS-□ B-□ B-300N | 30 • 32                                    | 30 • 32                                     | 88        | 86.6      | 66              | 30         | 10         | 8.3       | 50         | 50        | 2-M8                             | 34                                    |
|                        | 35 • 38 • 40 • 42                          | 35 • 38 • 40 • 42                           |           |           | 74              |            |            |           |            |           |                                  |                                       |
| SFF-100DS-□ B-□ B-450N | 32 • 35 • 38 • 40 • 42 • 45 • 48           | 32 • 35 • 38 • 40 • 42 • 45 • 48            | 98        | 112.4     | 84              | 40         | 12         | 10.2      | 52         | 56        | 2-M10                            | 68                                    |
| SFF-120DS-□ B-□ B-600N | 32 • 35 • 38 • 40 • 42 • 45                | 32 • 35 • 38 • 40 • 42 • 45                 | 118       | 112.4     | 84              | 40         | 12         | 10.2      | 72         | 68        | 2-M10                            | 68                                    |
|                        | 48 • 50 • 55                               | 48 • 50 • 55                                |           |           | 100             |            |            |           |            |           |                                  |                                       |

## Standard Bore Diameter

| Model                    | Nominal diameter | Standard bore diameter d1 • d2 [mm] |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------|------------------|-------------------------------------|---|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
|                          |                  | 8                                   | 9 | 9.525 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 |  |
| SFF-040DS- □ B- □ B-8N   | d1               | ●                                   | ● | ●     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               | ●                                   | ● | ●     | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| SFF-040DS- □ B- □ B-12N  | d1               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| SFF-050DS- □ B- □ B-25N  | d1               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| SFF-060DS- □ B- □ B-60N  | d1               |                                     |   |       |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |
| SFF-060DS- □ B- □ B-80N  | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |  |
| SFF-070DS- □ B- □ B-90N  | d1               |                                     |   |       |    |    |    |    |    |    |    | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |
| SFF-070DS- □ B- □ B-100N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |  |
| SFF-080DS- □ B- □ B-150N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |  |
| SFF-080DS- □ B- □ B-200N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |  |
| SFF-090DS- □ B- □ B-250N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  |    |    |    |    |    |    |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |  |
| SFF-090DS- □ B- □ B-300N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |  |
| SFF-100DS- □ B- □ B-450N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |
| SFF-120DS- □ B- □ B-600N | d1               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |
|                          | d2               |                                     |   |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |

### How to Place an Order

### SFF-080DS-25BK-30BK-200N

Size \_\_\_\_\_  
 Type \_\_\_\_\_  
 D: Double element  
 Material \_\_\_\_\_  
 S: Steel

Bore dia. d1 (Small dia.) \_\_\_\_\_  
 Bore dia. d2 (Large dia.) \_\_\_\_\_

Nominal rated torque (Refer to the specifications)  
 Countershaft tolerance  
 Blank: h7, K: k6, M: m6, J: j6, S: 35<sup>+0.010</sup><sub>0</sub>  
 Affixing method  
 B: Clamp  
 • Tapered shaft option: specify CN for d2 nominal diameter.

#### COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

#### SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
| Oldham Couplings<br>KSK      |                                            |

#### MODELS

SFC

SFS

SFF

SFM

SFH

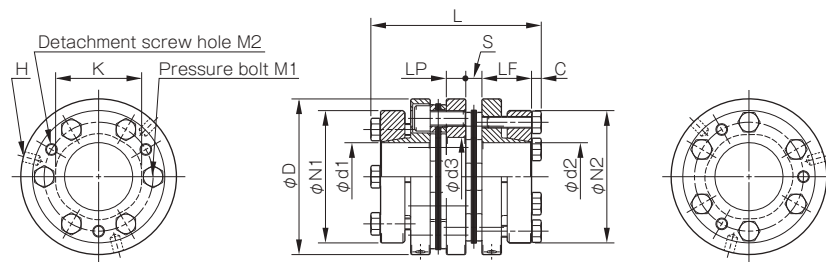
# SFF(DS) Types Double Element Type/Conical Clamp Hub

## Specifications

| Model                     | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|---------------------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                           |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFF-070DS- □ K- □ K-100N  | 100                   | 0.25          | 2           | ± 1.0      | 14000                                          | 120000                              | 242                       | $0.80 \times 10^{-3}$                        | 1.10         |
| SFF-080DS- □ K- □ K-150N  | 150                   | 0.32          | 2           | ± 1.0      | 13000                                          | 60000                               | 48                        | $1.36 \times 10^{-3}$                        | 1.56         |
| SFF-080DS- □ K- □ K-200N  | 200                   | 0.31          | 2           | ± 1.0      | 13000                                          | 155000                              | 273                       | $1.42 \times 10^{-3}$                        | 1.60         |
| SFF-090DS- □ K- □ K-300N  | 300                   | 0.32          | 2           | ± 1.2      | 12000                                          | 260000                              | 160.5                     | $2.24 \times 10^{-3}$                        | 1.87         |
| SFF-100DS- □ K- □ K-450N  | 450                   | 0.38          | 2           | ± 1.3      | 10000                                          | 370000                              | 270                       | $3.51 \times 10^{-3}$                        | 2.49         |
| SFF-120DS- □ K- □ K-600N  | 600                   | 0.38          | 2           | ± 1.6      | 9000                                           | 485000                              | 180                       | $7.17 \times 10^{-3}$                        | 3.29         |
| SFF-140DS- □ K- □ K-800N  | 800                   | 0.44          | 2           | ± 2.0      | 8000                                           | 700000                              | 180                       | $14.68 \times 10^{-3}$                       | 6.05         |
| SFF-140DS- □ K- □ K-1000N | 1000                  | 0.44          | 2           | ± 2.0      | 8000                                           | 700000                              | 180                       | $19.11 \times 10^{-3}$                       | 6.39         |

- Higher rpm possible with balancing.
- Torsional stiffness values given are measured values for the flexible element alone.
- The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



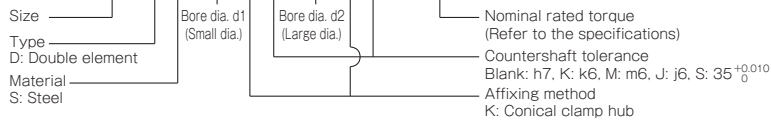
| Model                     | d1<br>[mm]        | d2<br>[mm]        | D<br>[mm] | L<br>[mm] | N1 · N2<br>[mm] | LF<br>[mm] | LP<br>[mm] | S<br>[mm] | C<br>[mm] | d3<br>[mm] | K<br>[mm] | H<br>[mm] | M1 Qty –<br>Nominal dia. | M1 · M2<br>Tightening<br>torque [N·m] | M2 Qty –<br>Nominal dia. |
|---------------------------|-------------------|-------------------|-----------|-----------|-----------------|------------|------------|-----------|-----------|------------|-----------|-----------|--------------------------|---------------------------------------|--------------------------|
| SFF-070DS- □ K- □ K-100N  | 18 · 19           | 18 · 19           | 68        | 76.8      | 53              | 23.5       | 8          | 5.9       | 5         | 37         | 38        | 3-5.1     | 6-M6                     | 10                                    | 3-M6                     |
|                           | 20 · 22 · 24 · 25 | 20 · 22 · 24 · 25 |           |           | 58              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 28 · 30           | 28 · 30           |           |           | 63              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-080DS- □ K- □ K-150N  | 22 · 24 · 25      | 22 · 24 · 25      | 78        | 87.6      | 58              | 25.5       | 10         | 8.3       | 5         | 40         | 37        | 4-5.1     | 4-M6                     | 10                                    | 2-M6                     |
|                           | 28 · 30           | 28 · 30           |           |           | 63              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | —                 | 38                |           |           | 73              |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-080DS- □ K- □ K-200N  | 22 · 24 · 25      | 22 · 24 · 25      | 78        | 86.4      | 58              | 25.5       | 10         | 7.7       | 5         | 40         | 42        | 3-5.1     | 6-M6                     | 10                                    | 3-M6                     |
|                           | 28 · 30           | 28 · 30           |           |           | 63              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 38                | 38                |           |           | 73              |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-090DS- □ K- □ K-300N  | 28 · 30           | 28 · 30           | 88        | 87.6      | 63              | 25.5       | 10         | 8.3       | 5         | 50         | 50        | 3-6.8     | 6-M6                     | 10                                    | 3-M6                     |
|                           | 32 · 35           | 32 · 35           |           |           | 68              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 45                | 45                |           |           | 78              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 48                | 48                |           |           | 83              |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-100DS- □ K- □ K-450N  | 32 · 35           | 32 · 35           | 98        | 97.4      | 68              | 27.5       | 12         | 10.2      | 5         | 52         | 56        | 3-6.8     | 6-M6                     | 10                                    | 3-M6                     |
|                           | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 45                | 45                |           |           | 78              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 48 · 50           | 48 · 50           |           |           | 83              |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-120DS- □ K- □ K-600N  | 35                | 35                | 118       | 97.4      | 68              | 27.5       | 12         | 10.2      | 5         | 72         | 68        | 3-6.8     | 6-M6                     | 10                                    | 3-M6                     |
|                           | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 45                | 45                |           |           | 78              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 48 · 50 · 52      | 48 · 50 · 52      |           |           | 83              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 55                | 55                |           |           | 88              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 60 · 62 · 65      | 60 · 62 · 65      |           |           | 98              |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-140DS- □ K- □ K-800N  | —                 | —                 | 138       | 120.2     | 108             | 36.5       | 15         | 10.6      | 5.5       | 80         | 78        | 3-8.6     | 6-M8                     | 24                                    | 3-M8                     |
|                           | 35 · 38           | 35 · 38           |           |           | 83              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 40 · 42 · 45      | 40 · 42 · 45      |           |           | 88              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | —                 | 48 · 50 · 52      |           |           | 98              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | —                 | 55 · 60           |           |           | 108             |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | —                 | 62 · 65 · 70      |           |           | 118             |            |            |           |           |            |           |           |                          |                                       |                          |
| SFF-140DS- □ K- □ K-1000N | —                 | 75 · 80           | 138       | 120.2     | 128             | 36.5       | 15         | 10.6      | 5.5       | 80         | 78        | 3-8.6     | 6-M8                     | 24                                    | 3-M8                     |
|                           | 48 · 50 · 52      | 48 · 50 · 52      |           |           | 98              |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 55 · 60           | 55 · 60           |           |           | 108             |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 62 · 65 · 70      | 62 · 65 · 70      |           |           | 118             |            |            |           |           |            |           |           |                          |                                       |                          |
|                           | 75                | 75 · 80           |           |           | 128             |            |            |           |           |            |           |           |                          |                                       |                          |

Standard Bore Diameter

| Model                     | Nominal diameter | Standard bore diameter d1 • d2 [mm] |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|---------------------------|------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
|                           |                  | 18                                  | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 52 | 55 | 60 | 62 | 65 | 70 | 75 | 80 |  |  |
| SFF-070DS- □ K- □ K-100N  | d1               | ●                                   | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               | ●                                   | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFF-080DS- □ K- □ K-150N  | d1               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFF-080DS- □ K- □ K-200N  | d1               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| SFF-090DS- □ K- □ K-300N  | d1               |                                     |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |  |  |
| SFF-100DS- □ K- □ K-450N  | d1               |                                     |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |  |  |
| SFF-120DS- □ K- □ K-600N  | d1               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |  |
| SFF-140DS- □ K- □ K-800N  | d1               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |
| SFF-140DS- □ K- □ K-1000N | d1               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |  |  |
|                           | d2               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |  |  |

How to Place an Order

SFF-080DS-25KK-30KK-200N



COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
| Oldham Couplings<br>KSK      |                                            |

MODELS

SFC

SFS

SFF

SFM

SFH



## Options Flange-Mounted

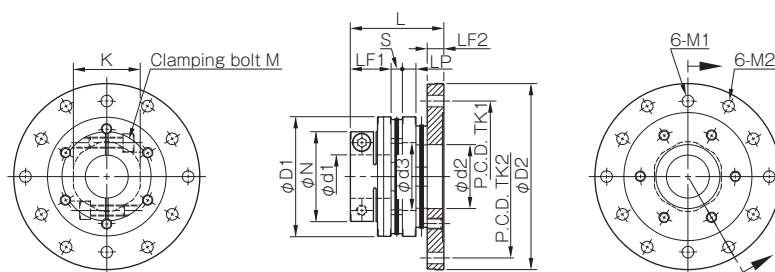
One of the hubs is flange-shaped, allowing mounting on a DD motor, speed reducer, etc.

### Specifications

| Model                   | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|-------------------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                         |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFF-070DS-□ B-105D-100N | 100                   | 0.25          | 2           | ± 1.0      | 1000                                           | 120000                              | 242                       | $1.20 \times 10^{-3}$                        | 1.08         |
| SFF-080DS-□ B-166D-200N | 200                   | 0.31          | 2           | ± 1.0      | 1000                                           | 155000                              | 273                       | $8.35 \times 10^{-3}$                        | 3.11         |
| SFF-090DS-□ B-166D-300N | 300                   | 0.32          | 2           | ± 1.2      | 1000                                           | 260000                              | 160.5                     | $8.69 \times 10^{-3}$                        | 3.18         |
| SFF-100DS-□ B-166D-450N | 450                   | 0.38          | 2           | ± 1.3      | 1000                                           | 370000                              | 270                       | $10.01 \times 10^{-3}$                       | 3.91         |
| SFF-120DS-□ B-166D-600N | 600                   | 0.38          | 2           | ± 1.6      | 1000                                           | 485000                              | 180                       | $12.66 \times 10^{-3}$                       | 4.57         |

- Max. rotation speed does not take into account dynamic balance.
- Torsional stiffness values given are measured values for the element alone.
- The moment of inertia and mass are measured when d1 is the maximum bore diameter.

### Dimensions



| Model                   | d1<br>[mm] | d2<br>[mm] | D1<br>[mm] | D2<br>[mm] | L<br>[mm] | N<br>[mm] | LF1<br>[mm] | LF2<br>[mm] | LP<br>[mm] | S<br>[mm] | d3<br>[mm] | K<br>[mm] | M1<br>[mm] | TK1<br>[mm] | M2<br>[mm] | TK2<br>[mm] | M Qty –<br>Nominal dia. | M Tightening<br>torque [N·m] |
|-------------------------|------------|------------|------------|------------|-----------|-----------|-------------|-------------|------------|-----------|------------|-----------|------------|-------------|------------|-------------|-------------------------|------------------------------|
| SFF-070DS-□ B-105D-100N | 28 ~ 35    | 36         | 68         | 105        | 54.4      | 56        | 25          | 10          | 8          | 5.9       | 37         | 38        | 6.4        | 86          | 6.4        | 92          | 2-M6                    | 14                           |
| SFF-080DS-□ B-166D-200N | 28 ~ 38    | 39         | 78         | 166        | 68.9      | 70(74)    | 30          | 13.5        | 10         | 7.7       | 40         | 42        | 6.4        | 150         | 8.6        | 150         | 2-M8                    | 34                           |
| SFF-090DS-□ B-166D-300N | 35 ~ 42    | 49         | 88         | 166        | 70.1      | 74        | 30          | 13.5        | 10         | 8.3       | 50         | 50        | 6.4        | 150         | 8.6        | 150         | 2-M8                    | 34                           |
| SFF-100DS-□ B-166D-450N | 32 ~ 48    | 51         | 98         | 166        | 85.9      | 84        | 40          | 13.5        | 12         | 10.2      | 52         | 56        | 6.4        | 150         | 8.6        | 150         | 2-M10                   | 68                           |
| SFF-120DS-□ B-166D-600N | 48 ~ 55    | 67         | 118        | 166        | 85.9      | 100       | 40          | 13.5        | 12         | 10.2      | 72         | 68        | 6.4        | 150         | 8.6        | 150         | 2-M10                   | 68                           |

- The figure in parentheses ( ) for the SFF-080DS is the value when d1 is ø38 mm.
- Special arrangements may be possible for mounting holes at the flange end regarding bore diameter, number, and pitch. Check if arrangements are possible.

### Standard Bore Diameter

| Model                   | Standard Bore Diameter d1 [mm] |    |    |    |    |    |    |    |    |    |    |
|-------------------------|--------------------------------|----|----|----|----|----|----|----|----|----|----|
|                         | 28                             | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 |
| SFF-070DS-□ B-105D-100N | ●                              | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFF-080DS-□ B-166D-200N | ●                              | ●  | ●  | ●  | ●  |    |    |    |    |    |    |
| SFF-090DS-□ B-166D-300N |                                |    |    | ●  | ●  | ●  | ●  |    |    |    |    |
| SFF-100DS-□ B-166D-450N |                                |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |
| SFF-120DS-□ B-166D-600N |                                |    |    |    |    |    |    |    | ●  | ●  | ●  |

### How to Place an Order

#### SFF-080DS-38BK-166D-200N

- Size
- Types  
D: Double element
- Material  
S: Steel
- Bore dia.  
d1
- Nominal rated torque  
(Refer to the specifications)  
[D2] D  
D: Flange-mounted  
• Select [D2] D after d1.
- Countershaft tolerance  
Blank: h7, K: k6, M: m6, J: j6, S:  $35^{+0.010}_0$
- Affixing method  
B: Clamp

# SFM Models Clamping

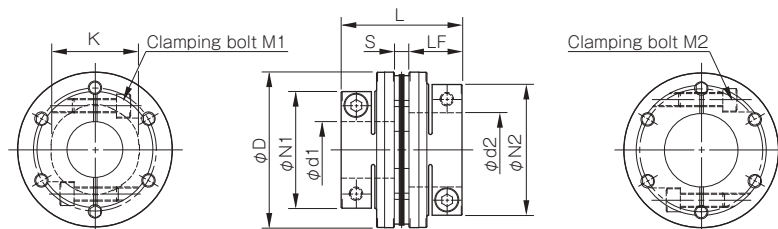
## Specifications

| Model               | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|---------------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                     |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFM-060SS-□B□B-60N  | 60                    | 0.02          | 1           | ± 0.3      | 24000                                          | 104000                              | 399                       | $0.22 \times 10^{-3}$                        | 0.52         |
| SFM-060SS-□B□B-80N  | 80                    | 0.02          | 1           | ± 0.3      | 24000                                          | 104000                              | 399                       | $0.23 \times 10^{-3}$                        | 0.49         |
| SFM-070SS-□B□B-90N  | 90                    | 0.02          | 1           | ± 0.5      | 24000                                          | 240000                              | 484                       | $0.40 \times 10^{-3}$                        | 0.72         |
| SFM-070SS-□B□B-100N | 100                   | 0.02          | 1           | ± 0.5      | 24000                                          | 240000                              | 484                       | $0.42 \times 10^{-3}$                        | 0.67         |
| SFM-080SS-□B□B-150N | 150                   | 0.02          | 1           | ± 0.5      | 24000                                          | 120000                              | 96                        | $0.79 \times 10^{-3}$                        | 1.04         |
| SFM-080SS-□B□B-200N | 200                   | 0.02          | 1           | ± 0.5      | 24000                                          | 310000                              | 546                       | $1.25 \times 10^{-3}$                        | 1.40         |
| SFM-090SS-□B□B-250N | 250                   | 0.02          | 1           | ± 0.6      | 24000                                          | 520000                              | 321                       | $1.54 \times 10^{-3}$                        | 1.62         |
| SFM-090SS-□B□B-300N | 300                   | 0.02          | 1           | ± 0.6      | 24000                                          | 520000                              | 321                       | $1.58 \times 10^{-3}$                        | 1.53         |
| SFM-100SS-□B□B-450N | 450                   | 0.02          | 1           | ± 0.65     | 20000                                          | 740000                              | 540                       | $3.27 \times 10^{-3}$                        | 2.53         |
| SFM-120SS-□B□B-600N | 600                   | 0.02          | 1           | ± 0.8      | 20000                                          | 970000                              | 360                       | $6.90 \times 10^{-3}$                        | 3.78         |

• Torsional stiffness values given are measured values for the flexible element alone.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



| Model               | d1<br>[mm]                       | d2<br>[mm]                                 | D<br>[mm] | L<br>[mm] | N1 • N2<br>[mm] | LF<br>[mm] | S<br>[mm] | K<br>[mm] | M1 • M2 Qty –<br>Nominal dia. | M1 • M2<br>Tightening<br>torque [N·m] |
|---------------------|----------------------------------|--------------------------------------------|-----------|-----------|-----------------|------------|-----------|-----------|-------------------------------|---------------------------------------|
| SFM-060SS-□B□B-60N  | 12 • 14 • 15 • 16 • 17 • 18 • 19 | 12 • 14 • 15 • 16 • 17 • 18 • 19 • 20 • 22 | 58        | 53.4      | 44              | 24         | 5.4       | 32        | 2-M6                          | 14                                    |
|                     | —                                | 24 • 25 • 28                               |           |           | 48              |            |           |           | 2-M5                          | 7                                     |
|                     | —                                | 30                                         |           |           | 52              |            |           |           | 2-M6                          | 14                                    |
| SFM-060SS-□B□B-80N  | 20 • 22                          | 20 • 22                                    | 58        | 53.4      | 44              | 24         | 5.4       | 32        | 2-M6                          | 14                                    |
|                     | 24 • 25 • 28                     | 24 • 25 • 28                               |           |           | 48              |            |           |           | 2-M5                          | 7                                     |
|                     | 30                               | 30                                         |           |           | 52              |            |           |           | 2-M6                          | 14                                    |
| SFM-070SS-□B□B-90N  | 18 • 19                          | 18 • 19 • 20 • 22 • 24 • 25                | 68        | 55.9      | 47              | 25         | 5.9       | 38        | 2-M6                          | 14                                    |
|                     | —                                | 28 • 30 • 32 • 35                          |           |           | 56              |            |           |           | 2-M6                          | 14                                    |
| SFM-070SS-□B□B-100N | 20 • 22 • 24 • 25                | 20 • 22 • 24 • 25                          | 68        | 55.9      | 47              | 25         | 5.9       | 38        | 2-M6                          | 14                                    |
|                     | 28 • 30 • 32 • 35                | 28 • 30 • 32 • 35                          |           |           | 56              |            |           |           | 2-M6                          | 14                                    |
|                     | —                                | —                                          |           |           | —               |            |           |           | —                             | —                                     |
| SFM-080SS-□B□B-150N | 22 • 24 • 25                     | 22 • 24 • 25                               | 78        | 68.3      | 53              | 30         | 8.3       | 37        | 2-M8                          | 34                                    |
|                     | 28 • 30 • 32 • 35                | 28 • 30 • 32 • 35                          |           |           | 56              |            |           |           | 2-M6                          | 14                                    |
|                     | —                                | —                                          |           |           | —               |            |           |           | —                             | —                                     |
| SFM-080SS-□B□B-200N | 22 • 24 • 25                     | 22 • 24 • 25                               | 78        | 67.7      | 53              | 30         | 7.7       | 42        | 2-M8                          | 34                                    |
|                     | 28 • 30 • 32 • 35                | 28 • 30 • 32 • 35                          |           |           | 70              |            |           |           | 2-M8                          | 34                                    |
|                     | 38                               | 38                                         |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
| SFM-090SS-□B□B-250N | 25 • 28                          | 25 • 28 • 30 • 32                          | 88        | 68.3      | 66              | 30         | 8.3       | 50        | 2-M8                          | 34                                    |
|                     | —                                | 35 • 38 • 40 • 42                          |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
| SFM-090SS-□B□B-300N | 30 • 32                          | 30 • 32                                    | 88        | 68.3      | 66              | 30         | 8.3       | 50        | 2-M8                          | 34                                    |
|                     | 35 • 38 • 40 • 42                | 35 • 38 • 40 • 42                          |           |           | 74              |            |           |           | 2-M8                          | 34                                    |
| SFM-100SS-□B□B-450N | 32 • 35 • 38 • 40 • 42 • 45 • 48 | 32 • 35 • 38 • 40 • 42 • 45 • 48           | 98        | 90.2      | 84              | 40         | 10.2      | 56        | 2-M10                         | 68                                    |
| SFM-120SS-□B□B-600N | 32 • 35 • 38 • 40 • 42 • 45      | 32 • 35 • 38 • 40 • 42 • 45                | 118       | 90.2      | 84              | 40         | 10.2      | 68        | 2-M10                         | 68                                    |
|                     | 48 • 50 • 55                     | 48 • 50 • 55                               |           |           | 100             |            |           |           | 2-M10                         | 68                                    |

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                               |
|------------------------------|-----------------------------------------------|
| Metal Couplings              | Metal Disc<br>Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring<br>Couplings<br>BAUMANNFLEX |
|                              | Cardan<br>Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                       |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                        |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX      |
|                              | Jaw Couplings<br>SPRFLEX                      |
|                              | Dual Rubber<br>Couplings<br>STEPFLEX          |
| Oldham<br>Couplings<br>KSK   |                                               |

## MODELS

SFC

SFS

SFF

SFM

SFH

## Standard Bore Diameter

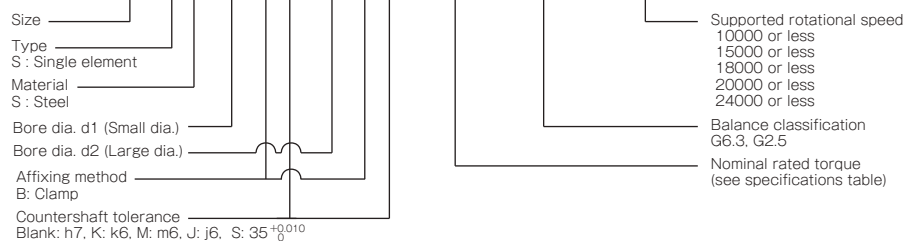
| Model                    | Nominal diameter | Standard bore diameter d1 • d2 [mm] |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------|------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                          |                  | 12                                  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 |
| SFM-060SS- □ B- □ B-60N  | d1               | ●                                   | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | d2               | ●                                   | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |
| SFM-060SS- □ B- □ B-80N  | d1               |                                     |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |
| SFM-070SS- □ B- □ B-90N  | d1               |                                     |    |    |    |    |    | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFM-070SS- □ B- □ B-100N | d1               |                                     |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFM-080SS- □ B- □ B-150N | d1               |                                     |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |
| SFM-080SS- □ B- □ B-200N | d1               |                                     |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |
| SFM-090SS- □ B- □ B-250N | d1               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  |    |    |    |    |    |    |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |
| SFM-090SS- □ B- □ B-300N | d1               |                                     |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |
|                          | d2               |                                     |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |
| SFM-100SS- □ B- □ B-450N | d1               |                                     |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |
|                          | d2               |                                     |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |
| SFM-120SS- □ B- □ B-600N | d1               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
|                          | d2               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

## Balance correction

| Model (size) | Balance classification | Supported rotational speed [min <sup>-1</sup> ] |               |               |               |               |
|--------------|------------------------|-------------------------------------------------|---------------|---------------|---------------|---------------|
|              |                        | 10000 or less                                   | 15000 or less | 18000 or less | 20000 or less | 24000 or less |
| SFM-060SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-070SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-080SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-090SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-100SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             |               |
| SFM-120SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             |               |

## How to Place an Order

### SFM-080SS-25BK-30BK-200N-G2.5/24000



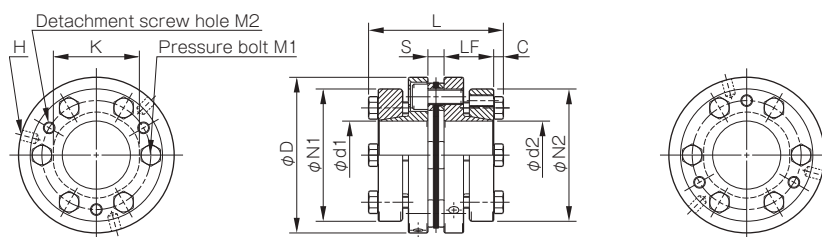
# SFM Models Conical Clamp Hub

## Specifications

| Model                   | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|-------------------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                         |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFM-070SS-□ K-□ K-100N  | 100                   | 0.02          | 1           | ± 0.5      | 24000                                          | 240000                              | 484                       | $0.66 \times 10^{-3}$                        | 0.92         |
| SFM-080SS-□ K-□ K-150N  | 150                   | 0.02          | 1           | ± 0.5      | 24000                                          | 120000                              | 96                        | $1.21 \times 10^{-3}$                        | 1.03         |
| SFM-080SS-□ K-□ K-200N  | 200                   | 0.02          | 1           | ± 0.5      | 24000                                          | 310000                              | 546                       | $1.11 \times 10^{-3}$                        | 1.26         |
| SFM-090SS-□ K-□ K-300N  | 300                   | 0.02          | 1           | ± 0.6      | 24000                                          | 520000                              | 321                       | $1.75 \times 10^{-3}$                        | 1.48         |
| SFM-100SS-□ K-□ K-450N  | 450                   | 0.02          | 1           | ± 0.65     | 20000                                          | 740000                              | 540                       | $2.56 \times 10^{-3}$                        | 1.87         |
| SFM-120SS-□ K-□ K-600N  | 600                   | 0.02          | 1           | ± 0.8      | 20000                                          | 970000                              | 360                       | $5.33 \times 10^{-3}$                        | 2.50         |
| SFM-140SS-□ K-□ K-800N  | 800                   | 0.02          | 1           | ± 1.0      | 20000                                          | 1400000                             | 360                       | $10.28 \times 10^{-3}$                       | 4.66         |
| SFM-140SS-□ K-□ K-1000N | 1000                  | 0.02          | 1           | ± 1.0      | 20000                                          | 1400000                             | 360                       | $14.70 \times 10^{-3}$                       | 5.01         |

• Torsional stiffness values given are measured values for the flexible element alone.  
• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions



| Model                   | d1<br>[mm]        | d2<br>[mm]        | D<br>[mm] | L<br>[mm] | N1 · N2<br>[mm] | LF<br>[mm] | S<br>[mm] | C<br>[mm] | K<br>[mm] | H<br>[mm] | M1 Qty –<br>Nominal dia. | M1 Tightening<br>torque [N·m] | M2 Qty –<br>Nominal dia. |
|-------------------------|-------------------|-------------------|-----------|-----------|-----------------|------------|-----------|-----------|-----------|-----------|--------------------------|-------------------------------|--------------------------|
| SFF-070SS-□ K-□ K-100N  | 18 · 19           | 18 · 19           | 68        | 62.9      | 53              | 23.5       | 5.9       | 5         | 38        | 3-5.1     | 6-M6                     | 10                            | 3-M6                     |
|                         | 20 · 22 · 24 · 25 | 20 · 22 · 24 · 25 |           |           | 58              |            |           |           |           |           |                          |                               |                          |
|                         | 28 · 30           | 28 · 30           |           |           | 63              |            |           |           |           |           |                          |                               |                          |
|                         | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
| SFF-080SS-□ K-□ K-150N  | 22 · 24 · 25      | 22 · 24 · 25      | 78        | 69.3      | 58              | 25.5       | 8.3       | 5         | 37        | 4-5.1     | 4-M6                     | 10                            | 2-M6                     |
|                         | 28 · 30           | 28 · 30           |           |           | 63              |            |           |           |           |           |                          |                               |                          |
|                         | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                         | —                 | 38                |           |           | 73              |            |           |           |           |           |                          |                               |                          |
| SFF-080SS-□ K-□ K-200N  | 22 · 24 · 25      | 22 · 24 · 25      | 78        | 68.7      | 58              | 25.5       | 7.7       | 5         | 42        | 3-5.1     | 6-M6                     | 10                            | 3-M6                     |
|                         | 28 · 30           | 28 · 30           |           |           | 63              |            |           |           |           |           |                          |                               |                          |
|                         | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                         | 38                | 38                |           |           | 73              |            |           |           |           |           |                          |                               |                          |
| SFF-090SS-□ K-□ K-300N  | 28 · 30           | 28 · 30           | 88        | 69.3      | 63              | 25.5       | 8.3       | 5         | 50        | 3-6.8     | 6-M6                     | 10                            | 3-M6                     |
|                         | 32 · 35           | 32 · 35           |           |           | 68              |            |           |           |           |           |                          |                               |                          |
|                         | 45                | 45                |           |           | 78              |            |           |           |           |           |                          |                               |                          |
|                         | 48                | 48                |           |           | 83              |            |           |           |           |           |                          |                               |                          |
| SFF-100SS-□ K-□ K-450N  | 32 · 35           | 32 · 35           | 98        | 75.2      | 68              | 27.5       | 10.2      | 5         | 56        | 3-6.8     | 6-M6                     | 10                            | 3-M6                     |
|                         | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |           |           |           |           |                          |                               |                          |
|                         | 45                | 45                |           |           | 78              |            |           |           |           |           |                          |                               |                          |
|                         | 48 · 50           | 48 · 50           |           |           | 83              |            |           |           |           |           |                          |                               |                          |
| SFF-120SS-□ K-□ K-600N  | 35                | 35                | 118       | 75.2      | 68              | 27.5       | 10.2      | 5         | 68        | 3-6.8     | 6-M6                     | 10                            | 3-M6                     |
|                         | 38 · 40 · 42      | 38 · 40 · 42      |           |           | 73              |            |           |           |           |           |                          |                               |                          |
|                         | 45                | 45                |           |           | 78              |            |           |           |           |           |                          |                               |                          |
|                         | 48 · 50 · 52      | 48 · 50 · 52      |           |           | 83              |            |           |           |           |           |                          |                               |                          |
| SFF-140SS-□ K-□ K-800N  | 55                | 55                | 138       | 94.6      | 88              | 36.5       | 10.6      | 5.5       | 78        | 3-8.6     | 6-M8                     | 24                            | 3-M8                     |
|                         | 60 · 62 · 65      | 60 · 62 · 65      |           |           | 98              |            |           |           |           |           |                          |                               |                          |
|                         | —                 | 70                |           |           | 108             |            |           |           |           |           |                          |                               |                          |
|                         | 35 · 38           | 35 · 38           |           |           | 83              |            |           |           |           |           |                          |                               |                          |
| SFF-140SS-□ K-□ K-1000N | 40 · 42 · 45      | 40 · 42 · 45      | 138       | 94.6      | 88              | 36.5       | 10.6      | 5.5       | 78        | 3-8.6     | 6-M8                     | 24                            | 3-M8                     |
|                         | —                 | 48 · 50 · 52      |           |           | 98              |            |           |           |           |           |                          |                               |                          |
|                         | —                 | 55 · 60           |           |           | 108             |            |           |           |           |           |                          |                               |                          |
|                         | —                 | 62 · 65 · 70      |           |           | 118             |            |           |           |           |           |                          |                               |                          |
| SFF-140SS-□ K-□ K-1000N | —                 | 75 · 80           | 138       | 94.6      | 128             | 36.5       | 10.6      | 5.5       | 78        | 3-8.6     | 6-M8                     | 24                            | 3-M8                     |
|                         | 48 · 50 · 52      | 48 · 50 · 52      |           |           | 98              |            |           |           |           |           |                          |                               |                          |
|                         | 55 · 60           | 55 · 60           |           |           | 108             |            |           |           |           |           |                          |                               |                          |
|                         | 62 · 65 · 70      | 62 · 65 · 70      |           |           | 118             |            |           |           |           |           |                          |                               |                          |

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                               |
|------------------------------|-----------------------------------------------|
| Metal Couplings              | Metal Disc<br>Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring<br>Couplings<br>BAUMANNFLEX |
|                              | Cardan<br>Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                       |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                        |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX      |
|                              | Jaw Couplings<br>SPRFLEX                      |
|                              | Dual Rubber<br>Couplings<br>STEPFLEX          |
| Oldham<br>Couplings<br>KSK   |                                               |

## MODELS

SFC

SFS

SFF

SFM

SFH

## Standard Bore Diameter

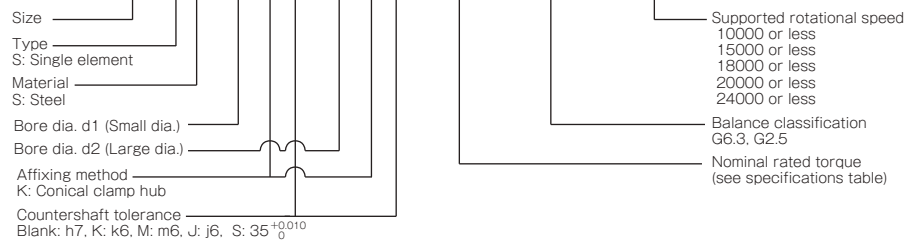
| Model                     | Standard bore diameter d1 • d2 [mm] |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
|---------------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|
|                           | Nominal diameter                    | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 | 45 | 48 | 50 | 55 | 60 | 62 | 65 | 70 | 75 | 80 |   |  |  |  |
| SFM-070SS- □ K- □ K-100N  | d1                                  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
|                           | d2                                  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
| SFM-080SS- □ K- □ K-150N  | d1                                  |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
|                           | d2                                  |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
| SFM-080SS- □ K- □ K-200N  | d1                                  |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
|                           | d2                                  |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |
| SFM-090SS- □ K- □ K-300N  | d1                                  |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |   |  |  |  |
|                           | d2                                  |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |   |  |  |  |
| SFM-100SS- □ K- □ K-450N  | d1                                  |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |   |  |  |  |
|                           | d2                                  |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |   |  |  |  |
| SFM-120SS- □ K- □ K-600N  | d1                                  |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |    |   |  |  |  |
|                           | d2                                  |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |    |   |  |  |  |
| SFM-140SS- □ K- □ K-800N  | d1                                  |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  |    |    |    |    |    |    |    |    |    |   |  |  |  |
|                           | d2                                  |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ● |  |  |  |
| SFM-140SS- □ K- □ K-1000N | d1                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |   |  |  |  |
|                           | d2                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ● |  |  |  |

## Balance correction

| Model (size) | Balance classification | Supported rotational speed [min <sup>-1</sup> ] |               |               |               |               |
|--------------|------------------------|-------------------------------------------------|---------------|---------------|---------------|---------------|
|              |                        | 10000 or less                                   | 15000 or less | 18000 or less | 20000 or less | 24000 or less |
| SFM-070SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-080SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-090SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             | ●             |
| SFM-100SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             |               |
| SFM-120SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             |               |
| SFM-140SS    | G6.3 • G2.5            | ●                                               | ●             | ●             | ●             |               |

## How to Place an Order

SFM-080SS-25KK-30KK-200N-G2.5/24000



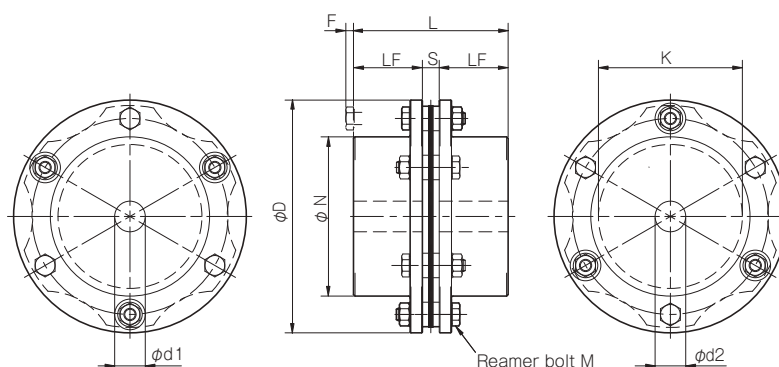
# SFH(S) Types Single Element Type

## Specification (SFH-□S) Pilot Bore/Key or Set Screw

| Model    | Rated torque<br>[N·m] | Misalignment |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|----------|-----------------------|--------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|          |                       | Angular [°]  | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFH-150S | 1000                  | 1            | ± 0.4      | 5900                                           | 1500000                             | 244                       | $12.60 \times 10^{-3}$                       | 4.71         |
| SFH-170S | 1300                  | 1            | ± 0.5      | 5100                                           | 2840000                             | 224                       | $26.88 \times 10^{-3}$                       | 7.52         |
| SFH-190S | 2000                  | 1            | ± 0.5      | 4700                                           | 3400000                             | 244                       | $43.82 \times 10^{-3}$                       | 10.57        |
| SFH-210S | 4000                  | 1            | ± 0.55     | 4300                                           | 4680000                             | 508                       | $68.48 \times 10^{-3}$                       | 13.78        |
| SFH-220S | 5000                  | 1            | ± 0.6      | 4000                                           | 5940000                             | 448                       | $102.53 \times 10^{-3}$                      | 18.25        |
| SFH-260S | 8000                  | 1            | ± 0.7      | 3400                                           | 10780000                            | 612                       | $233.86 \times 10^{-3}$                      | 29.66        |

- Max. rotation speed does not take into account dynamic balance.
- The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions (SFH-□S) Pilot Bore/Key or Set Screw



Unit [mm]

| Model    | d1 • d2    |      |      | D   | N   | L   | LF  | S  | F  | K   | M          |
|----------|------------|------|------|-----|-----|-----|-----|----|----|-----|------------|
|          | Pilot bore | Min. | Max. |     |     |     |     |    |    |     |            |
| SFH-150S | 20         | 22   | 70   | 152 | 104 | 101 | 45  | 11 | 5  | 94  | 6-M8 × 36  |
| SFH-170S | 25         | 28   | 80   | 178 | 118 | 124 | 55  | 14 | 6  | 108 | 6-M10 × 45 |
| SFH-190S | 30         | 32   | 85   | 190 | 126 | 145 | 65  | 15 | 10 | 116 | 6-M12 × 54 |
| SFH-210S | 35         | 38   | 90   | 210 | 130 | 165 | 75  | 15 | 8  | 124 | 6-M16 × 60 |
| SFH-220S | 45         | 48   | 100  | 225 | 144 | 200 | 90  | 20 | -2 | 132 | 6-M16 × 60 |
| SFH-260S | 50         | 55   | 115  | 262 | 166 | 223 | 100 | 23 | 11 | 150 | 6-M20 × 80 |

### How to Place an Order

### SFH-150S-38H-38H

Size: 150, Type: S, Single element, Bore diameter: d1 (Small diameter) – d2 (Large diameter), Blank: Pilot bore

Bore specifications  
Blank: Compliant with the old JIS standards (class 2)  
H: Compliant with the new JIS standards  
N: Compliant with the new motor standards

### COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

### SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
| Oldham Couplings<br>KSK      |                                            |

### MODELS

SFC

SFS

SFF

SFM

SFH

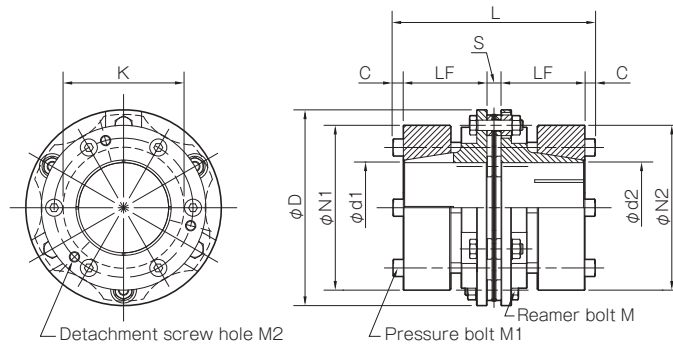
## Specification (SFH-□S-□K-□K) Conical Clamp Hub

| Model          | Rated torque<br>[N·m] | Misalignment |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|----------------|-----------------------|--------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                |                       | Angular [°]  | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFH-150S-□K-□K | 1000                  | 1            | ± 0.4      | 5900                                           | 1500000                             | 244                       | 25.14 × 10 <sup>-3</sup>                     | 8.95         |
| SFH-170S-□K-□K | 1300                  | 1            | ± 0.5      | 5100                                           | 2840000                             | 224                       | 47.90 × 10 <sup>-3</sup>                     | 12.53        |
| SFH-190S-□K-□K | 2000                  | 1            | ± 0.5      | 4700                                           | 3400000                             | 244                       | 60.40 × 10 <sup>-3</sup>                     | 14.21        |
| SFH-210S-□K-□K | 4000                  | 1            | ± 0.55     | 4300                                           | 4680000                             | 508                       | 80.50 × 10 <sup>-3</sup>                     | 16.12        |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions (SFH-□S-□K-□K) Conical Clamp Hub



Unit [mm]

| Model          | D   | L   | d1 / d2                     | N1, N2 | LF | S  | C  | K   | M          | M1         | M2    |
|----------------|-----|-----|-----------------------------|--------|----|----|----|-----|------------|------------|-------|
| SFH-150S-□K-□K | 152 | 157 | 38 • 40 • 42 • 45 • 48 • 50 | 108    | 65 | 11 | 8  | 94  | 6-M8 × 36  | 6-M8 × 60  | 3-M8  |
|                |     |     | 55 • 56 • 60 • 65 • 70      | 128    |    |    |    |     |            |            |       |
| SFH-170S-□K-□K | 178 | 160 | 38 • 40 • 42 • 45 • 48 • 50 | 108    | 65 | 14 | 8  | 108 | 6-M10 × 45 | 6-M8 × 60  | 3-M8  |
|                |     |     | 55 • 56 • 60 • 65 • 70      | 128    |    |    |    |     |            |            |       |
|                |     |     | 75 • 80                     | 148    |    |    |    |     |            |            |       |
| SFH-190S-□K-□K | 190 | 175 | 38 • 40 • 42 • 45 • 48 • 50 | 108    | 70 | 15 | 10 | 116 | 6-M12 × 54 | 6-M10 × 65 | 3-M10 |
|                |     |     | 55 • 56 • 60 • 65 • 70      | 128    |    |    |    |     |            |            |       |
|                |     |     | 75 • 80 • 85                | 148    |    |    |    |     |            |            |       |
| SFH-210S-□K-□K | 210 | 181 | 38 • 40 • 42 • 45 • 48 • 50 | 108    | 73 | 15 | 10 | 124 | 6-M16 × 60 | 6-M10 × 65 | 3-M10 |
|                |     |     | 55 • 56 • 60 • 65 • 70      | 128    |    |    |    |     |            |            |       |
|                |     |     | 75 • 80 • 85 • 90           | 148    |    |    |    |     |            |            |       |

## Standard Bore Diameter

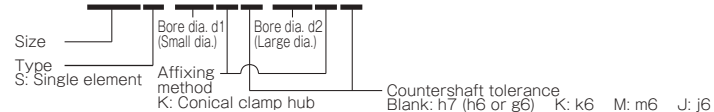
| Model          | Standard bore diameter d1, d2 [mm] |      |      |      |      |      |      |      |      |      |      |      |      |    |    |
|----------------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|
|                | 38                                 | 40   | 42   | 45   | 48   | 50   | 55   | 56   | 60   | 65   | 70   | 78   | 80   | 85 | 90 |
| SFH-150S-□K-□K | ●                                  | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |    |    |
| SFH-170S-□K-□K | 1100                               | 1200 | 1250 | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |    |    |
| SFH-190S-□K-□K | 1800                               | 1900 | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●  |    |
| SFH-210S-□K-□K | 1800                               | 1900 | 2000 | 2150 | 2300 | 2400 | 2600 | 2650 | 2850 | 3100 | 3350 | 3600 | 3800 | ●  | ●  |

• The bore diameters marked with ● or numbers indicate a standard bore diameter and the respective torque.

• Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque value [N·m].

## How to Place an Order

## SFH-150S-38KK-42KK



# SFH(G) Types Double Element Type

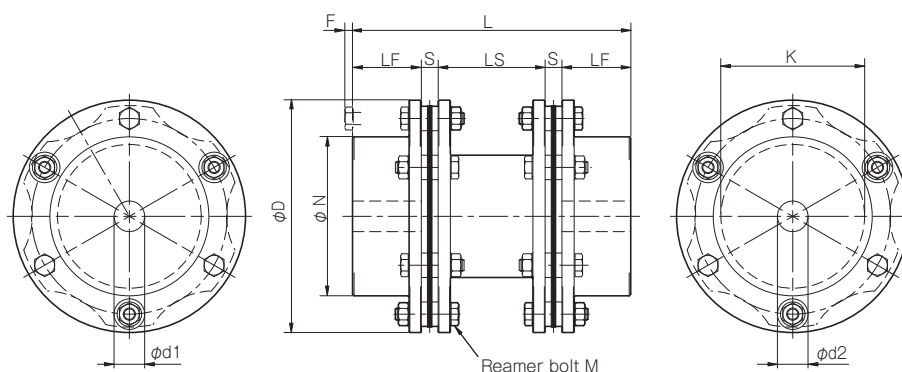
## Specification (SFH-□G) Pilot Bore/Key or Set Screw

| Model    | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|----------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|          |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFH-150G | 1000                  | 1.4           | 2           | ± 0.8      | 5900                                           | 750000                              | 122                       | 21.87 × 10 <sup>-3</sup>                     | 8.72         |
| SFH-170G | 1300                  | 1.6           | 2           | ± 1.0      | 5100                                           | 1420000                             | 112                       | 51.07 × 10 <sup>-3</sup>                     | 13.94        |
| SFH-190G | 2000                  | 2             | 2           | ± 1.0      | 4700                                           | 1700000                             | 122                       | 81.58 × 10 <sup>-3</sup>                     | 19.51        |
| SFH-210G | 4000                  | 2.1           | 2           | ± 1.1      | 4300                                           | 2340000                             | 254                       | 125.50 × 10 <sup>-3</sup>                    | 24.26        |
| SFH-220G | 5000                  | 2.3           | 2           | ± 1.2      | 4000                                           | 2970000                             | 224                       | 176.91 × 10 <sup>-3</sup>                    | 30.27        |
| SFH-260G | 8000                  | 2.9           | 2           | ± 1.4      | 3400                                           | 5390000                             | 306                       | 433.47 × 10 <sup>-3</sup>                    | 53.11        |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions (SFH-□G) Pilot Bore/Key or Set Screw



Unit [mm]

| Model    | d1 · d2    |      |      | D   | N   | L   | LF  | LS  | S  | F  | K   | M           |
|----------|------------|------|------|-----|-----|-----|-----|-----|----|----|-----|-------------|
|          | Pilot bore | Min. | Max. |     |     |     |     |     |    |    |     |             |
| SFH-150G | 20         | 22   | 70   | 152 | 104 | 182 | 45  | 70  | 11 | 5  | 94  | 12-M8 × 36  |
| SFH-170G | 25         | 28   | 80   | 178 | 118 | 218 | 55  | 80  | 14 | 6  | 108 | 12-M10 × 45 |
| SFH-190G | 30         | 32   | 85   | 190 | 126 | 260 | 65  | 100 | 15 | 10 | 116 | 12-M12 × 54 |
| SFH-210G | 35         | 38   | 90   | 210 | 130 | 290 | 75  | 110 | 15 | 8  | 124 | 12-M16 × 60 |
| SFH-220G | 45         | 48   | 100  | 225 | 144 | 335 | 90  | 115 | 20 | -2 | 132 | 12-M16 × 60 |
| SFH-260G | 50         | 55   | 115  | 262 | 166 | 391 | 100 | 145 | 23 | 11 | 150 | 12-M20 × 80 |

• Further dimensions for LS possible on request.

## How to Place an Order

SFH-150G-38H-38H LS=500

Size  
Type: G  
Double element  
Bore diameter: d1 (Small diameter) - d2 (Large diameter)  
Blank: Pilot bore  
Spacer length  
Bore specifications  
Blank: Compliant with the old JIS standards (class 2)  
H: Compliant with the new JIS standards  
N: Compliant with the new motor standards

## Maximum LS Dimension When Used Vertically

| Model    | LS [mm] |
|----------|---------|
| SFH-150G | 1100    |
| SFH-170G | 800     |
| SFH-190G | 900     |
| SFH-210G | 2000    |
| SFH-220G | 1900    |
| SFH-260G | 2500    |

• When considering vertical use and the LS dimension is greater than that in the above table, contact Miki Pulley.

## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
| Oldham Couplings<br>KSK      |                                            |

## MODELS

SFC

SFS

SFF

SFM

SFH



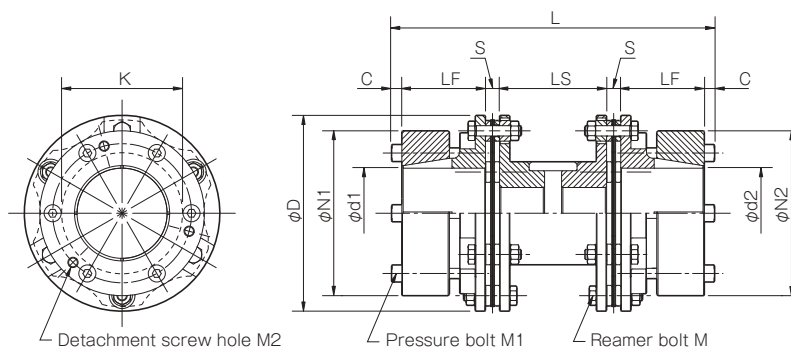
## Specification (SFH-□G-□K-□K) Conical Clamp Hub

| Model          | Rated torque<br>[N·m] | Misalignment  |             |            | Max. rotation<br>speed<br>[min <sup>-1</sup> ] | Torsional<br>stiffness<br>[N·m/rad] | Axial stiffness<br>[N/mm] | Moment of<br>inertia<br>[kg·m <sup>2</sup> ] | Mass<br>[kg] |
|----------------|-----------------------|---------------|-------------|------------|------------------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|--------------|
|                |                       | Parallel [mm] | Angular [°] | Axial [mm] |                                                |                                     |                           |                                              |              |
| SFH-150G-□K-□K | 1000                  | 1.4           | 2           | ± 0.8      | 5900                                           | 750000                              | 122                       | 31.41 × 10 <sup>-3</sup>                     | 12.96        |
| SFH-170G-□K-□K | 1300                  | 1.6           | 2           | ± 1.0      | 5100                                           | 1420000                             | 112                       | 72.09 × 10 <sup>-3</sup>                     | 18.95        |
| SFH-190G-□K-□K | 2000                  | 2.0           | 2           | ± 1.0      | 4700                                           | 1700000                             | 122                       | 98.15 × 10 <sup>-3</sup>                     | 23.14        |
| SFH-210G-□K-□K | 4000                  | 2.1           | 2           | ± 1.1      | 4300                                           | 2340000                             | 254                       | 137.53 × 10 <sup>-3</sup>                    | 26.61        |

• Higher rpm possible with balancing.

• The moment of inertia and mass are specified for the maximum bore diameter.

## Dimensions (SFH-□G-□K-□K) Conical Clamp Hub



Unit [mm]

| Model          | D   | L   | d1 • d2                                                                    | N1 • N2           | LF | LS  | S  | C  | K   | M           | M1         | M2    |
|----------------|-----|-----|----------------------------------------------------------------------------|-------------------|----|-----|----|----|-----|-------------|------------|-------|
| SFH-150G-□K-□K | 152 | 238 | 38 • 40 • 42 • 45 • 48 • 50<br>55 • 56 • 60 • 65 • 70                      | 108<br>128        | 65 | 70  | 11 | 8  | 94  | 12-M8 × 36  | 6-M8 × 60  | 3-M8  |
| SFH-170G-□K-□K | 178 | 254 | 38 • 40 • 42 • 45 • 48 • 50<br>55 • 56 • 60 • 65 • 70<br>75 • 80           | 108<br>128<br>148 | 65 | 80  | 14 | 8  | 108 | 12-M10 × 45 | 6-M8 × 60  | 3-M8  |
| SFH-190G-□K-□K | 190 | 290 | 38 • 40 • 42 • 45 • 48 • 50<br>55 • 56 • 60 • 65 • 70<br>75 • 80 • 85      | 108<br>128<br>148 | 70 | 100 | 15 | 10 | 116 | 12-M12 × 54 | 6-M10 × 65 | 3-M10 |
| SFH-210G-□K-□K | 210 | 306 | 38 • 40 • 42 • 45 • 48 • 50<br>55 • 56 • 60 • 65 • 70<br>75 • 80 • 85 • 90 | 108<br>128<br>148 | 73 | 110 | 15 | 10 | 124 | 12-M16 × 60 | 6-M10 × 65 | 3-M10 |

• Further dimensions for LS possible on request.

## Standard Bore Diameter

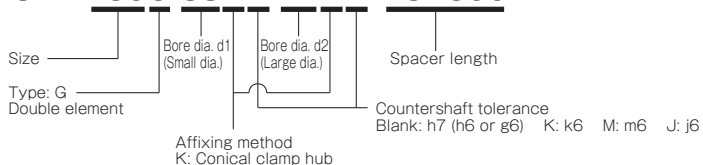
| Model          | Standard bore diameter d1, d2 [mm] |      |      |      |      |      |      |      |      |      |      |      |      |    |    |
|----------------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|
|                | 38                                 | 40   | 42   | 45   | 48   | 50   | 55   | 56   | 60   | 65   | 70   | 78   | 80   | 85 | 90 |
| SFH-150G-□K-□K | ●                                  | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |    |    |
| SFH-170G-□K-□K | 1100                               | 1200 | 1250 | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |    |    |
| SFH-190G-□K-□K | 1800                               | 1900 | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●  |    |
| SFH-210G-□K-□K | 1800                               | 1900 | 2000 | 2150 | 2300 | 2400 | 2600 | 2650 | 2850 | 3100 | 3350 | 3600 | 3800 | ●  | ●  |

• The bore diameters marked with ● or numbers indicate a standard bore diameter and the respective torque.

• Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque value [N·m].

## How to Place an Order

SFH-150G-38KK-42KK LS=500



## Maximum LS Dimension When Used Vertically

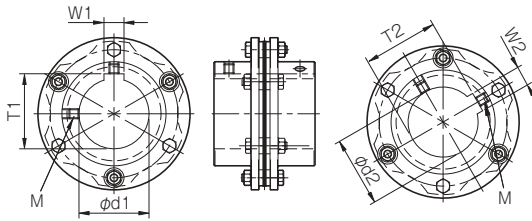
| Model          | LS [mm] |
|----------------|---------|
| SFH-150G-□K-□K | 1100    |
| SFH-170G-□K-□K | 800     |
| SFH-190G-□K-□K | 900     |
| SFH-210G-□K-□K | 2000    |

• When considering vertical use and the LS dimension is greater than that in the above table, consult Miki Pulley.

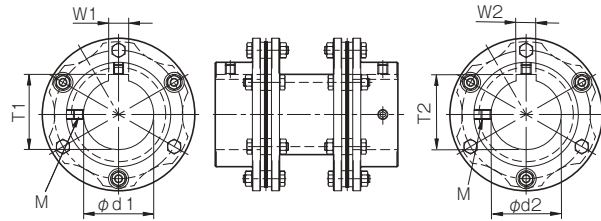
## Standard Hole-Drillings

- Positioning precision for keyway milling is determined by sight, so contact Miki Pulley when the keyway requires a positioning precision.
- The set screws are included with the product.
- Contact Miki Pulley regarding technical documentation for standard dimensions for bore processing other than those given here.

## ■ SFH(S)



## ■ SFH(G)



Unit [mm]

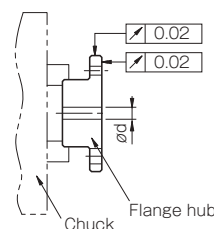
| Models compliant with the old JIS standards (class 2) |                                    |                                   |                                    |                    | Models compliant with the new JIS standards |                                    |                                   |                                    |                    | Models compliant with the new motor standards |                                   |                                   |                                    |                    |
|-------------------------------------------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|---------------------------------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------|-----------------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|--------------------|
| Nominal bore diameter                                 | Bore diameter [d1 · d2]            | Keyway width [W1 · W2]            | Keyway height [T1 · T2]            | Set screw hole [M] | Nominal bore diameter                       | Bore diameter [d1 · d2]            | Keyway width [W1 · W2]            | Keyway height [T1 · T2]            | Set screw hole [M] | Nominal bore diameter                         | Bore diameter [d1 · d2]           | Keyway width [W1 · W2]            | Keyway height [T1 · T2]            | Set screw hole [M] |
| Tolerance                                             | H7                                 | E9                                | —                                  | —                  | Tolerance                                   | H7                                 | H9                                | —                                  | —                  | Tolerance                                     | G7, F7                            | H9                                | —                                  | —                  |
| 22                                                    | 22 <sup>+0.021</sup> <sub>0</sub>  | 7 <sup>+0.061</sup> <sub>0</sub>  | 25.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 22H                                         | 22 <sup>+0.021</sup> <sub>0</sub>  | 6 <sup>+0.030</sup> <sub>0</sub>  | 24.8 <sup>+0.3</sup> <sub>0</sub>  | 2-M5               | —                                             | —                                 | —                                 | —                                  | —                  |
| 24                                                    | 24 <sup>+0.021</sup> <sub>0</sub>  | 7 <sup>+0.061</sup> <sub>0</sub>  | 27.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 24H                                         | 24 <sup>+0.021</sup> <sub>0</sub>  | 8 <sup>+0.036</sup> <sub>0</sub>  | 27.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 24N                                           | 24 <sup>+0.028</sup> <sub>0</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 27.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               |
| 25                                                    | 25 <sup>+0.021</sup> <sub>0</sub>  | 7 <sup>+0.061</sup> <sub>0</sub>  | 28.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 25H                                         | 25 <sup>+0.021</sup> <sub>0</sub>  | 8 <sup>+0.036</sup> <sub>0</sub>  | 28.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | —                                             | —                                 | —                                 | —                                  | —                  |
| 28                                                    | 28 <sup>+0.021</sup> <sub>0</sub>  | 7 <sup>+0.061</sup> <sub>0</sub>  | 31.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 28H                                         | 28 <sup>+0.021</sup> <sub>0</sub>  | 8 <sup>+0.036</sup> <sub>0</sub>  | 31.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 28N                                           | 28 <sup>+0.028</sup> <sub>0</sub> | 8 <sup>+0.036</sup> <sub>0</sub>  | 31.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               |
| 30                                                    | 30 <sup>+0.021</sup> <sub>0</sub>  | 7 <sup>+0.061</sup> <sub>0</sub>  | 33.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | 30H                                         | 30 <sup>+0.021</sup> <sub>0</sub>  | 8 <sup>+0.036</sup> <sub>0</sub>  | 33.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M6               | —                                             | —                                 | —                                 | —                                  | —                  |
| 32                                                    | 32 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.061</sup> <sub>0</sub> | 35.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 32H                                         | 32 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.036</sup> <sub>0</sub> | 35.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | —                                             | —                                 | —                                 | —                                  | —                  |
| 35                                                    | 35 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.061</sup> <sub>0</sub> | 38.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 35H                                         | 35 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.036</sup> <sub>0</sub> | 38.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | —                                             | —                                 | —                                 | —                                  | —                  |
| 38                                                    | 38 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.061</sup> <sub>0</sub> | 41.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 38H                                         | 38 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.036</sup> <sub>0</sub> | 41.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 38N                                           | 38 <sup>+0.050</sup> <sub>0</sub> | 10 <sup>+0.036</sup> <sub>0</sub> | 41.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               |
| 40                                                    | 40 <sup>+0.025</sup> <sub>0</sub>  | 10 <sup>+0.061</sup> <sub>0</sub> | 43.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 40H                                         | 40 <sup>+0.025</sup> <sub>0</sub>  | 12 <sup>+0.043</sup> <sub>0</sub> | 43.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | —                                             | —                                 | —                                 | —                                  | —                  |
| 42                                                    | 42 <sup>+0.025</sup> <sub>0</sub>  | 12 <sup>+0.075</sup> <sub>0</sub> | 45.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 42H                                         | 42 <sup>+0.025</sup> <sub>0</sub>  | 12 <sup>+0.043</sup> <sub>0</sub> | 45.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 42N                                           | 42 <sup>+0.050</sup> <sub>0</sub> | 12 <sup>+0.043</sup> <sub>0</sub> | 45.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               |
| 45                                                    | 45 <sup>+0.025</sup> <sub>0</sub>  | 12 <sup>+0.075</sup> <sub>0</sub> | 48.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 45H                                         | 45 <sup>+0.025</sup> <sub>0</sub>  | 14 <sup>+0.043</sup> <sub>0</sub> | 48.8 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | —                                             | —                                 | —                                 | —                                  | —                  |
| 48                                                    | 48 <sup>+0.025</sup> <sub>0</sub>  | 12 <sup>+0.075</sup> <sub>0</sub> | 51.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 48H                                         | 48 <sup>+0.025</sup> <sub>0</sub>  | 14 <sup>+0.043</sup> <sub>0</sub> | 51.8 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 48N                                           | 48 <sup>+0.050</sup> <sub>0</sub> | 14 <sup>+0.043</sup> <sub>0</sub> | 51.8 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              |
| 50                                                    | 50 <sup>+0.025</sup> <sub>0</sub>  | 12 <sup>+0.075</sup> <sub>0</sub> | 53.5 <sup>+0.3</sup> <sub>0</sub>  | 2-M8               | 50H                                         | 50 <sup>+0.025</sup> <sub>0</sub>  | 14 <sup>+0.043</sup> <sub>0</sub> | 53.8 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | —                                             | —                                 | —                                 | —                                  | —                  |
| 55                                                    | 55 <sup>+0.030</sup> <sub>0</sub>  | 15 <sup>+0.075</sup> <sub>0</sub> | 60.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 55H                                         | 55 <sup>+0.030</sup> <sub>0</sub>  | 16 <sup>+0.043</sup> <sub>0</sub> | 59.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 55N                                           | 55 <sup>+0.060</sup> <sub>0</sub> | 16 <sup>+0.043</sup> <sub>0</sub> | 59.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              |
| 56                                                    | 56 <sup>+0.030</sup> <sub>0</sub>  | 15 <sup>+0.075</sup> <sub>0</sub> | 61.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 56H                                         | 56 <sup>+0.030</sup> <sub>0</sub>  | 16 <sup>+0.043</sup> <sub>0</sub> | 60.3 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | —                                             | —                                 | —                                 | —                                  | —                  |
| 60                                                    | 60 <sup>+0.030</sup> <sub>0</sub>  | 15 <sup>+0.075</sup> <sub>0</sub> | 65.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 60H                                         | 60 <sup>+0.030</sup> <sub>0</sub>  | 18 <sup>+0.043</sup> <sub>0</sub> | 64.4 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 60N                                           | 60 <sup>+0.060</sup> <sub>0</sub> | 18 <sup>+0.043</sup> <sub>0</sub> | 64.4 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              |
| 65                                                    | 65 <sup>+0.030</sup> <sub>0</sub>  | 18 <sup>+0.075</sup> <sub>0</sub> | 71.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 65H                                         | 65 <sup>+0.030</sup> <sub>0</sub>  | 18 <sup>+0.043</sup> <sub>0</sub> | 69.4 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 65N                                           | 65 <sup>+0.060</sup> <sub>0</sub> | 18 <sup>+0.043</sup> <sub>0</sub> | 69.4 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              |
| 70                                                    | 70 <sup>+0.030</sup> <sub>0</sub>  | 18 <sup>+0.075</sup> <sub>0</sub> | 76.0 <sup>+0.3</sup> <sub>0</sub>  | 2-M10              | 70H                                         | 70 <sup>+0.030</sup> <sub>0</sub>  | 20 <sup>+0.052</sup> <sub>0</sub> | 74.9 <sup>+0.5</sup> <sub>0</sub>  | 2-M10              | —                                             | —                                 | —                                 | —                                  | —                  |
| 75                                                    | 75 <sup>+0.030</sup> <sub>0</sub>  | 20 <sup>+0.095</sup> <sub>0</sub> | 81.0 <sup>+0.5</sup> <sub>0</sub>  | 2-M10              | 75H                                         | 75 <sup>+0.030</sup> <sub>0</sub>  | 20 <sup>+0.052</sup> <sub>0</sub> | 79.9 <sup>+0.5</sup> <sub>0</sub>  | 2-M10              | 75N                                           | 75 <sup>+0.060</sup> <sub>0</sub> | 20 <sup>+0.052</sup> <sub>0</sub> | 79.9 <sup>+0.5</sup> <sub>0</sub>  | 2-M10              |
| 80                                                    | 80 <sup>+0.030</sup> <sub>0</sub>  | 20 <sup>+0.095</sup> <sub>0</sub> | 86.0 <sup>+0.5</sup> <sub>0</sub>  | 2-M10              | 80H                                         | 80 <sup>+0.030</sup> <sub>0</sub>  | 22 <sup>+0.052</sup> <sub>0</sub> | 85.4 <sup>+0.5</sup> <sub>0</sub>  | 2-M12              | —                                             | —                                 | —                                 | —                                  | —                  |
| 85                                                    | 85 <sup>+0.035</sup> <sub>0</sub>  | 24 <sup>+0.095</sup> <sub>0</sub> | 93.0 <sup>+0.5</sup> <sub>0</sub>  | 2-M12              | 85H                                         | 85 <sup>+0.035</sup> <sub>0</sub>  | 22 <sup>+0.052</sup> <sub>0</sub> | 90.4 <sup>+0.5</sup> <sub>0</sub>  | 2-M12              | 85N                                           | 85 <sup>+0.071</sup> <sub>0</sub> | 22 <sup>+0.052</sup> <sub>0</sub> | 90.4 <sup>+0.5</sup> <sub>0</sub>  | 2-M12              |
| 90                                                    | 90 <sup>+0.035</sup> <sub>0</sub>  | 24 <sup>+0.095</sup> <sub>0</sub> | 98.0 <sup>+0.5</sup> <sub>0</sub>  | 2-M12              | 90H                                         | 90 <sup>+0.035</sup> <sub>0</sub>  | 25 <sup>+0.052</sup> <sub>0</sub> | 95.4 <sup>+0.5</sup> <sub>0</sub>  | 2-M12              | —                                             | —                                 | —                                 | —                                  | —                  |
| 95                                                    | 95 <sup>+0.035</sup> <sub>0</sub>  | 24 <sup>+0.095</sup> <sub>0</sub> | 103.0 <sup>+0.5</sup> <sub>0</sub> | 2-M12              | 95H                                         | 95 <sup>+0.035</sup> <sub>0</sub>  | 25 <sup>+0.052</sup> <sub>0</sub> | 100.4 <sup>+0.5</sup> <sub>0</sub> | 2-M12              | 95N                                           | 95 <sup>+0.071</sup> <sub>0</sub> | 25 <sup>+0.052</sup> <sub>0</sub> | 100.4 <sup>+0.5</sup> <sub>0</sub> | 2-M12              |
| 100                                                   | 100 <sup>+0.035</sup> <sub>0</sub> | 28 <sup>+0.095</sup> <sub>0</sub> | 109.0 <sup>+0.5</sup> <sub>0</sub> | 2-M12              | 100H                                        | 100 <sup>+0.035</sup> <sub>0</sub> | 28 <sup>+0.052</sup> <sub>0</sub> | 106.4 <sup>+0.5</sup> <sub>0</sub> | 2-M12              | —                                             | —                                 | —                                 | —                                  | —                  |
| 115                                                   | 115 <sup>+0.035</sup> <sub>0</sub> | 32 <sup>+0.112</sup> <sub>0</sub> | 125.0 <sup>+0.5</sup> <sub>0</sub> | 2-M12              | 115H                                        | 115 <sup>+0.035</sup> <sub>0</sub> | 32 <sup>+0.062</sup> <sub>0</sub> | 122.4 <sup>+0.5</sup> <sub>0</sub> | 2-M12              | —                                             | —                                 | —                                 | —                                  | —                  |

## Distance from Set Screw Edge

| Model                      | SFH-150 | SFH-170 | SFH-190 | SFH-210 | SFH-220 | SFH-260 |
|----------------------------|---------|---------|---------|---------|---------|---------|
| Position of set screw [mm] | 15      | 20      | 25      | 30      | 35      | 40      |

## Centering and Finishing when Drilling Bores in Flange Hubs

SFH models are delivered in component form. When processing bore diameters in pilot-bore products in particular, adjust the chuck so that runout of each flange hub is no more than the precision of the figure at right, and then finish the inner diameter.



## COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

## SERIES

|                              |                                            |
|------------------------------|--------------------------------------------|
| Metal Couplings              | Metal Disc Couplings<br>SERVOFLEX          |
|                              | Metal Coil Spring Couplings<br>BAUMANNFLEX |
|                              | Cardan Couplings<br>PARAFLEX               |
|                              | Sliced Couplings<br>ASK                    |
| Rubber and Plastic Couplings | Rigid Couplings<br>STK                     |
|                              | Jaw Couplings<br>MIKI PULLEY<br>STARFLEX   |
|                              | Jaw Couplings<br>SPRFLEX                   |
|                              | Dual Rubber Couplings<br>STEPFLEX          |
|                              | Oldham Couplings<br>KSK                    |

## MODELS

SFC

SFS

SFF

SFM

SFH