

SFS(S) Types Single Element Type

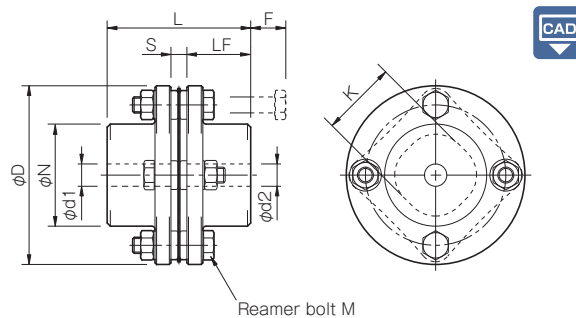
Specifications

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

*Max. rotation speed does not take into account dynamic balance.

*The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions



Unit [mm]

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

*Pilot bores are to be drilled into the part.

*The nominal diameter of the reamer bolt M is equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

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													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are supported as standard bore diameter. See the standard hole-drilling standards for information.

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 JIS standards H9

J: Compliant with JIS standards JS9

P: Compliant with JIS standards P9

N: Compliant with motor standards

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

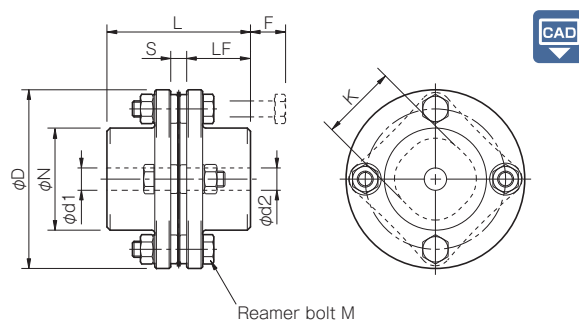
Specifications

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

*Max. rotation speed does not take into account dynamic balance.

*The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions



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

*The nominal diameter of the reamer bolt M is equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

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													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are supported as standard bore diameter. See the standard hole-drilling standards for information.

How to Place an Order

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

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

COUPLINGS

ETP BUSHINGS

ELECTROMAGNETIC CLUTCHES & BRAKES

SPEED CHANGERS & REDUCERS

INVERTERS

LINEAR SHAFT DRIVES

TORQUE LIMITERS

ROSTA

SERIES

Metal Disc Couplings SERVOFLEX

High-rigidity Couplings SERVORIGID

Metal Slit Couplings HELI-CAL

Metal Coil Spring Couplings BAUMANNFLEX

Pin Bushing Couplings PARAFLEX

Link Couplings SCHMIDT

Dual Rubber Couplings STEPFLEX

Jaw Couplings MIKI PULLEY STARFLEX

Jaw Couplings SPRFLEX

Plastic Bellows Couplings BELLOWFLEX

Rubber and Plastic Couplings CENTAFLEX

MODELS

SFC

SFS

SFF

SFM

SFH

SFS(W) Types Double Element Type

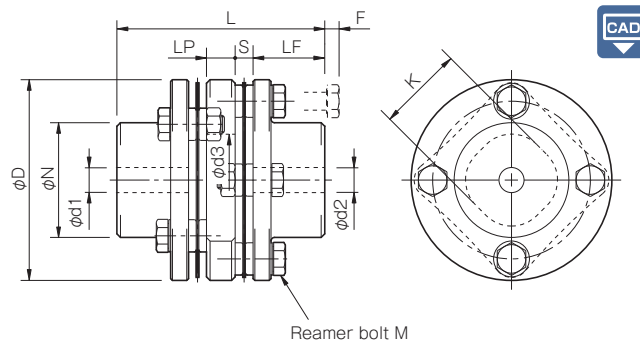
Specifications

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

*Max. rotation speed does not take into account dynamic balance.

*The moment of inertia and mass are measured 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

*Pilot bores are to be drilled into the part.

*The nominal diameter of the reamer bolt M is equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

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													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are supported as standard bore diameter. See the standard hole-drilling standards for information.

How to Place an Order

SFS-10W-25H-30H

Size Bore diameter: d1 (Small diameter) - d2 (Large diameter)

Type: W
Double element

Blank: Pilot bore
Bore specifications
Blank : Compliant with the old JIS standards (class 2) E9
H: Compliant with JIS standards H9
J: Compliant with JIS standards JS9
P: Compliant with JIS standards P9
N: Compliant with motor standards

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

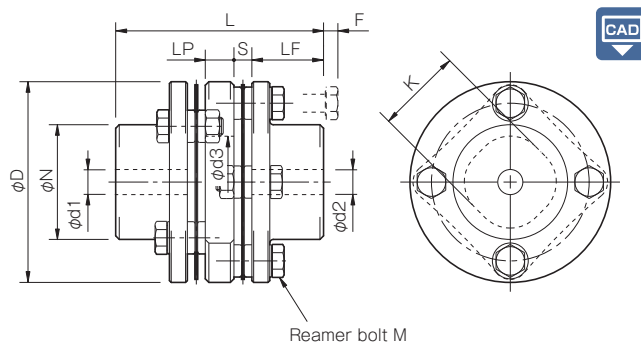
Specifications

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

*Max. rotation speed does not take into account dynamic balance.

*The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions



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

*The nominal diameter of the reamer bolt M is equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

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												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are supported as standard bore diameter. See the standard hole-drilling standards for information.

How to Place an Order

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

Size: 10 (Small diameter) - 25 (Large diameter)
 Surface finishing: -C: Electroless nickel plating
 Type: W Double element

Bore specifications
 Blank: Compliant with the old JIS standards (class 2) E9
 H: Compliant with JIS standards H9
 J: Compliant with JIS standards JS9
 P: Compliant with JIS standards P9
 N: Compliant with motor standards

COUPLINGS

ETP BUSHINGS

ELECTROMAGNETIC CLUTCHES & BRAKES

SPEED CHANGERS & REDUCERS

INVERTERS

LINEAR SHAFT DRIVES

TORQUE LIMITERS

ROSTA

SERIES

Metal Disc Couplings SERVOFLEX

High-rigidity Couplings SERVORIGID

Metal Slit Couplings HELI-CAL

Metal Coil Spring Couplings BAUMANNFLEX

Pin Bushing Couplings PARAFLEX

Link Couplings SCHMIDT

Dual Rubber Couplings STEPFLEX

Jaw Couplings MIKI PULLEY STARFLEX

Jaw Couplings SPRFLEX

Plastic Bellows Couplings BELLOWFLEX

Rubber and Plastic Couplings CENTAFLEX

MODELS

SFC

SFS

SFF

SFM

SFH

SFS(G) Types Floating Shaft Type

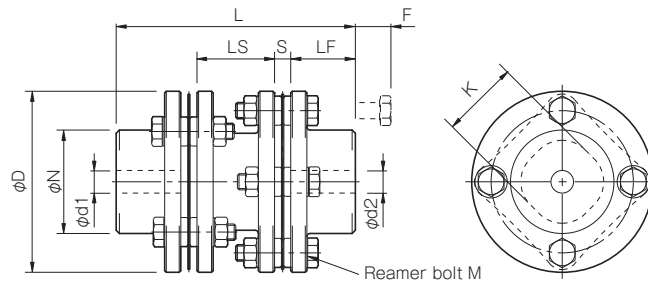
Specifications

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

*Max. rotation speed does not take into account dynamic balance.

*The moment of inertia and mass are measured 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

*Pilot bores are to be drilled into the part.

*If you require a product with an LS dimension that exceeds those above, contact Miki Pulley with your required dimension [mm]. Please contact Miki Pulley for assistance if the LS dimension is less than those above or if $LS \geq 1000$.

*The nominal diameter of the reamer bolt M is equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

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													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are supported as standard bore diameter. See the standard hole-drilling standards for information.

How to Place an Order

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

Size

Type: G

Double element
Floating shaft

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 JIS standards H9

J: Compliant with JIS standards JS9

P: Compliant with JIS standards P9

N: Compliant with motor standards

Spacer length

* Use mm units for LS dimensions.

* Leave blank for standard spacers.

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

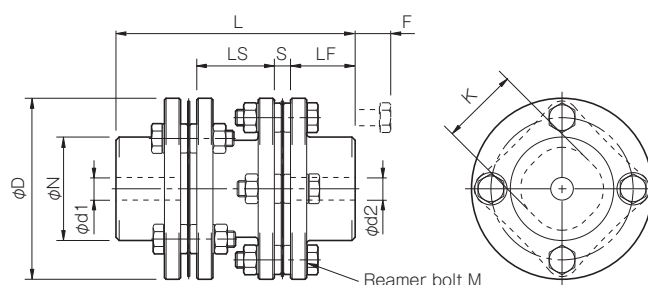
Specifications

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

*Max. rotation speed does not take into account dynamic balance.

*The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions



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

* If you require a product with an LS dimension that exceeds those above, contact Miki Pulley with your required dimension [mm]. Please contact Miki Pulley for assistance if the LS dimension is less than those above or if $LS \geq 1000$.

* Please note that when the LS dimension exceeds 100 mm with the electroless nickel plating specification (SFS-□G-C), the insertion length of the shaft cannot exceed the LS dimension.

* The nominal diameter of the reamer bolt M is equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

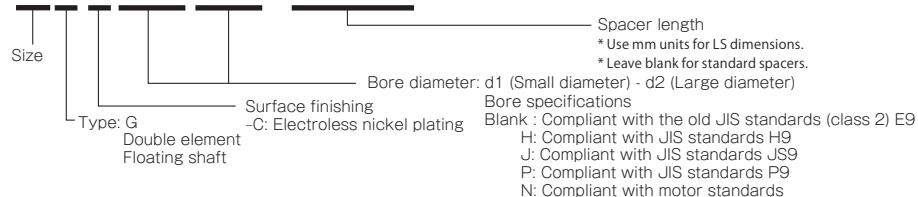
Standard Bore Diameter

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													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Bore diameters marked with ● are supported as standard bore diameter. See the standard hole-drilling standards for information.

How to Place an Order

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



COUPLINGS

ETP BUSHINGS

ELECTROMAGNETIC CLUTCHES & BRAKES

SPEED CHANGERS & REDUCERS

INVERTERS

LINEAR SHAFT DRIVES

TORQUE LIMITERS

ROSTA

SERIES

Metal Disc Couplings SERVOFLEX

High-rigidity Couplings SERVORIGID

Metal Slit Couplings HELI-CAL

Metal Coil Spring Couplings BAUMANNFLEX

Pin Bushing Couplings PARAFLEX

Link Couplings SCHMIDT

Dual Rubber Couplings STEPFLEX

Jaw Couplings MIKI PULLEY STARFLEX

Jaw Couplings SPRFLEX

Plastic Bellows Couplings BELLOWFLEX

Rubber and Plastic Couplings CENTAFLEX

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

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

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

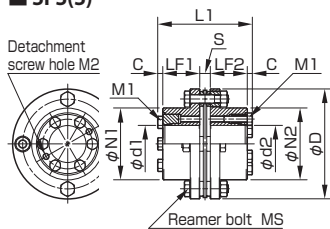
*Check the Standard Bore Diameters as there may be limitations on the rated torque caused by the holding power of the coupling shaft section.

*Max. rotation speed does not take into account dynamic balance.

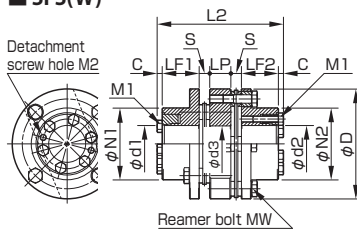
*The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions

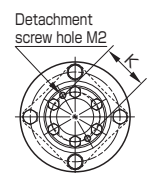
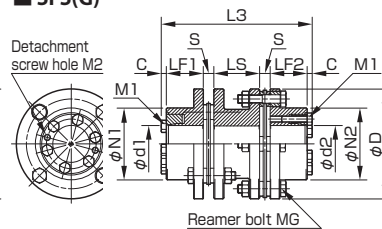
■ SFS(S)



■ 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	15·16·17·18·19·20·22	15·16·17·18·19·20·22	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
SFS-10	25·28·30·32·35	25·28·30·32·35	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	30·32·35	30·32·35	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

* If you require a product with an LS dimension other than that for SFS(G) type, contact Miki Pulley with your required dimension. Please contact Miki Pulley for assistance if LS ≥ 1000.

* The nominal diameters of each bolt and tap are equal to the quantity minus the nominal diameter of the screw threads times the nominal length. The quantities for the pressure bolt M1 and detachment screw hole M2 are quantities for the hub on one side.

COUPLINGS

ETP BUSHINGS

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LINEAR SHAFT DRIVES

TORQUE LIMITERS

ROSTA

SERIES

Metal Disc Couplings	SERVOFLEX
	High-rigidity Couplings SERVORIGID
	Metal Slit Couplings HELI-CAL
	Metal Coil Spring Couplings BAUMANNFLEX
Metal Couplings	Pin Bushing Couplings PARAFLEX
	Link Couplings SCHMIDT
Rubber and Plastic Couplings	Dual Rubber Couplings STEPFLEX
	Jaw Couplings MIKI PULLEY STARFLEX
	Jaw Couplings SPRFLEX
	Plastic Bellows Couplings BELLOWFLEX
	Rubber and Plastic Couplings CENTAFLEX

MODELS

SFC

SFS

SFF

SFM

SFH

Standard Bore Diameter

SFS-06		Standard bore diameter d2 [mm]													
		12M	14M	15M	16M	17M	18M	19M	20M	22M	25M	28M	30M	32M	35M
Standard bore diameter d1 [mm]	12M	●	●	●											
	14M		●	●											
	15M			●											
SFS-08		Standard bore diameter d2 [mm]													
		12M	14M	15M	16M	17M	18M	19M	20M	22M	25M	28M	30M	32M	35M
Standard bore diameter d1 [mm]	15M			●	●	●	●	●	●	●					
	16M				●	●	●	●	●	●					
	17M					●	●	●	●	●					
	18M						●	●	●	●					
	19M							●	●	●					
	20M								●	●					
	22M									●					
SFS-09		Standard bore diameter d2 [mm]													
		12M	14M	15M	16M	17M	18M	19M	20M	22M	25M	28M	30M	32M	35M
Standard bore diameter d1 [mm]	25M										●	●	●	●	●
	28M											●	●	●	●
	30M												●	●	●
	32M													●	●
	35M														●
SFS-10		Standard bore diameter d2 [mm]													
		12M	14M	15M	16M	17M	18M	19M	20M	22M	25M	28M	30M	32M	35M
Standard bore diameter d1 [mm]	25M										●	●	●	●	●
	28M											●	●	●	●
	30M												●	●	●
	32M													●	●
	35M														●
SFS-12		Standard bore diameter d2 [mm]													
		12M	14M	15M	16M	17M	18M	19M	20M	22M	25M	28M	30M	32M	35M
Standard bore diameter d1 [mm]	30M												380	380	380
	32M													400	400
	35M														●
SFS-14		Standard bore diameter d2 [mm]													
		12M	14M	15M	16M	17M	18M	19M	20M	22M	25M	28M	30M	32M	35M
Standard bore diameter d1 [mm]	35M														●

* Bore diameters marked with ● or numbers are supported as the standard bore diameters. Consult 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 $^{+0.010}_{-0.025}$.

How to Place an
Order

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

Size

Types

S: Single element
W: Double element
G: Floating shaftBore diameter d1
(Small diameter)
Bore diameter d2
(Large diameter)

Spacer length

* Use mm units for LS dimensions.
* Leave blank for standard spacers.

Affixing method

M: Frictional coupling

SFS Models

Options Tapered Shaft Supported

Supports servo motor tapered shafts.

Specifications

Model	Rated torque [N · m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N · m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg · m ²]	Mass [kg]
		Parallel [mm]	Angular [°]	Axial [mm]					
SFS-06S-□ M-11C	40	—	1	± 0.8	5000	29000	45	0.29×10^{-3}	0.60
SFS-06S-□ M-16C	40	—	1	± 0.8	5000	29000	45	0.34×10^{-3}	0.70
SFS-08S-□ M-16C	80	—	1	± 1.0	5000	83000	60	0.84×10^{-3}	1.20
SFS-09S-□ M-16C	180	—	1	± 1.2	5000	170000	122	1.50×10^{-3}	1.60

Model	Rated torque [N · m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N · m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg · m ²]	Mass [kg]
		Parallel [mm]	Angular [°]	Axial [mm]					
SFS-06W-□ M-11C	40	0.3	1 (On one side)	± 1.6	5000	14000	22	0.40×10^{-3}	0.80
SFS-06W-□ M-16C	40	0.3	1 (On one side)	± 1.6	5000	14000	22	0.45×10^{-3}	0.90
SFS-08W-□ M-16C	80	0.3	1 (On one side)	± 2.0	5000	41000	30	1.07×10^{-3}	1.50
SFS-09W-□ M-16C	180	0.5	1 (On one side)	± 2.4	5000	85000	61	2.10×10^{-3}	2.30

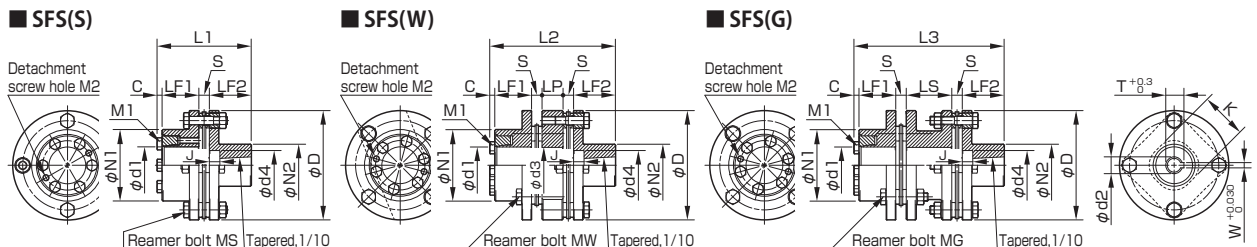
Model	Rated torque [N · m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N · m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg · m ²]	Mass [kg]
		Parallel [mm]	Angular [°]	Axial [mm]					
SFS-06G-□ M-11C	40	0.5	1 (On one side)	± 1.6	5000	14000	22	0.54×10^{-3}	1.00
SFS-06G-□ M-16C	40	0.5	1 (On one side)	± 1.6	5000	14000	22	0.59×10^{-3}	1.10
SFS-08G-□ M-16C	80	0.5	1 (On one side)	± 2.0	5000	41000	30	1.47×10^{-3}	1.90
SFS-09G-□ M-16C	180	0.6	1 (On one side)	± 2.4	5000	85000	61	2.80×10^{-3}	2.60

* There may be limitations on the rated torque caused by the holding power of the coupling shaft section. If the bore diameter is not standard and is small, please check first.

* Max. rotation speed does not take into account dynamic balance.

* The moment of inertia and mass are measured for the maximum bore diameter.

Dimensions



Unit [mm]

Model	d 2 Nominal dia.	d 1	d 2	W +0.030 0	T +0.3 0	d 4	J	D	N1	N2	L1	L2	L3	LF1	LF2	LP	LS	S	C	d 3	K	MS	MW	MG	M1	M2
SFS-06	11C	12·14·15	11	4	12.2	18	9	68	40	30	60.8	78.8	90.8	25	25	12	24	6	4.8	24	30	4-M6 × 25	8-M6 × 18	8-M6 × 25	4-M5	2-M5
	16C	15	16	5	17.3	28	10	82	54	40	75.8	93.8	105.8	40	40	12	26	6	4.8	28	38	4-M6 × 29	8-M6 × 20	8-M6 × 29	4-M6	2-M6
SFS-08	16C	15·16·17·18·19·20·22	16	5	17.3	28	10	82	54	40	80.8	98.8	112.8	30	40	12	26	6	4.8	28	38	4-M6 × 29	8-M6 × 20	8-M6 × 29	4-M6	2-M6
	16C	25·28	16	5	17.3	28	10	94	58	40	82.8	112.8	120.8	30	40	22	30	8	4.8	32	42	4-M8 × 36	8-M8 × 27	8-M8 × 36	6-M6	2-M6
SFS-09	16C	30·32·35	16	5	17.3	28	10	94	58	40	90.8	120.8	128.8	38	40	22	30	8	4.8	32	42	4-M8 × 36	8-M8 × 27	8-M8 × 36	6-M6	2-M6

* If you require a coupling with an LS dimension other than that for SFS(G) type, contact Miki Pulley with your required dimension. Please contact Miki Pulley for assistance if LS ≥ 1000.

* The nominal diameters of each bolt and tap are equal to the quantity minus the nominal diameter of the screw threads times the nominal length.

* The machining tolerance for paired mounting shafts of the hub on the friction-coupled side is h7 (h6 or g6) class.

How to Place an Order

SFS-08G-20M-16C LS=500

Size
Types
S: Single element
W: Double element
G: Floating shaft
Bore diameter d1
Affixing method
M: Frictional coupling

Spacer length
* Use mm units for LS dimensions.
* Leave blank for standard spacers.

[d2] C
C: Tapered shaft hub
* Select d2 for C.

COUPLINGS

ETP BUSHINGS

ELECTROMAGNETIC
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INVERTERS

LINEAR SHAFT DRIVES

TORQUE LIMITERS

ROSTA

SERIES

Metal Disc Couplings	SERVOFLEX
	High-rigidity Couplings
	SERVORIGID
	Metal Slit Couplings
	HELI-CAL
Metal Coil Spring Couplings	BAUMANNFLEX
	Pin Bushing Couplings
	PARAFLEX
	Link Couplings
	SCHMIDT
Dual Rubber Couplings	STEPPLEX
	Jaw Couplings
	MIKI PULLEY
	STARFLEX
	Jaw Couplings
Plastic Bellows Couplings	SPRFLEX
	BELLOWFLEX
	Rubber and Plastic Couplings
	CENTAFLEX

MODELS

SFC

SFS

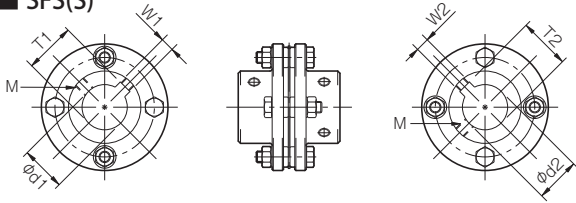
SFF

SFM

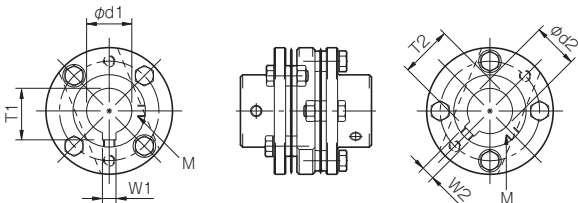
SFH

Standard Hole-Drilling Standards

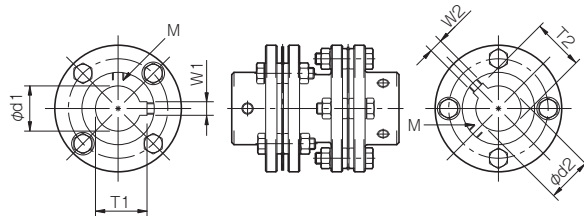
■ SFS(S)



■ SFS(W)



■ SFS(G)



Unit [mm]

Models compliant with the old JIS standard (class 2) JIS B 1301 1959					Models compliant with the new JIS standard (H9) JIS B 1301 1996					Models compliant with the new JIS standard (JS9) JIS B 1301 1996					Models compliant with the new JIS standard (P9) JIS B 1301 1996				
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	Tolerance E9	—	—	—	Tolerance H7, H8	Tolerance H9	—	—	—	Tolerance H7, H8	Tolerance JS9	—	—	—	Tolerance H7, H8	Tolerance P9	—	—	—
8	8 $+0.022_0^{+0.022}$	—	—	2-M4	8H	8 $+0.022_0^{+0.022}$	3 $+0.025_0^{+0.025}$	9.4 $+0.3_0^{+0.3}$	2-M4	8J	8 $+0.022_0^{+0.022}$	3 ± 0.0125	9.4 $+0.3_0^{+0.3}$	2-M4	8P	8 $+0.022_0^{+0.022}$	3 $-0.006_0^{-0.031}$	9.4 $+0.3_0^{+0.3}$	2-M4
9	9 $+0.022_0^{+0.022}$	—	—	2-M4	9H	9 $+0.022_0^{+0.022}$	3 $+0.025_0^{+0.025}$	10.4 $+0.3_0^{+0.3}$	2-M4	9J	9 $+0.022_0^{+0.022}$	3 ± 0.0125	10.4 $+0.3_0^{+0.3}$	2-M4	9P	9 $+0.022_0^{+0.022}$	3 $-0.006_0^{-0.031}$	10.4 $+0.3_0^{+0.3}$	2-M4
10	10 $+0.022_0^{+0.022}$	—	—	2-M4	10H	10 $+0.022_0^{+0.022}$	3 $+0.025_0^{+0.025}$	11.4 $+0.3_0^{+0.3}$	2-M4	10J	10 $+0.022_0^{+0.022}$	3 ± 0.0125	11.4 $+0.3_0^{+0.3}$	2-M4	10P	10 $+0.022_0^{+0.022}$	3 $-0.006_0^{-0.031}$	11.4 $+0.3_0^{+0.3}$	2-M4
11	11 $+0.018_0^{+0.018}$	—	—	2-M4	11H	11 $+0.018_0^{+0.018}$	4 $+0.030_0^{+0.030}$	12.8 $+0.3_0^{+0.3}$	2-M4	11J	11 $+0.018_0^{+0.018}$	4 ± 0.0150	12.8 $+0.3_0^{+0.3}$	2-M4	11P	11 $+0.018_0^{+0.018}$	4 $-0.012_0^{-0.042}$	12.8 $+0.3_0^{+0.3}$	2-M4
12	12 $+0.018_0^{+0.018}$	4 $+0.050_0^{+0.050}$	13.5 $+0.3_0^{+0.3}$	2-M4	12H	12 $+0.018_0^{+0.018}$	4 $+0.030_0^{+0.030}$	13.8 $+0.3_0^{+0.3}$	2-M4	12J	12 $+0.018_0^{+0.018}$	4 ± 0.0150	13.8 $+0.3_0^{+0.3}$	2-M4	12P	12 $+0.018_0^{+0.018}$	4 $-0.012_0^{-0.042}$	13.8 $+0.3_0^{+0.3}$	2-M4
14	14 $+0.018_0^{+0.018}$	5 $+0.050_0^{+0.050}$	16.0 $+0.3_0^{+0.3}$	2-M4	14H	14 $+0.018_0^{+0.018}$	5 $+0.030_0^{+0.030}$	16.3 $+0.3_0^{+0.3}$	2-M4	14J	14 $+0.018_0^{+0.018}$	5 ± 0.0150	16.3 $+0.3_0^{+0.3}$	2-M4	14P	14 $+0.018_0^{+0.018}$	5 $-0.012_0^{-0.042}$	16.3 $+0.3_0^{+0.3}$	2-M4
15	15 $+0.018_0^{+0.018}$	5 $+0.050_0^{+0.050}$	17.0 $+0.3_0^{+0.3}$	2-M4	15H	15 $+0.018_0^{+0.018}$	5 $+0.030_0^{+0.030}$	17.3 $+0.3_0^{+0.3}$	2-M4	15J	15 $+0.018_0^{+0.018}$	5 ± 0.0150	17.3 $+0.3_0^{+0.3}$	2-M4	15P	15 $+0.018_0^{+0.018}$	5 $-0.012_0^{-0.042}$	17.3 $+0.3_0^{+0.3}$	2-M4
16	16 $+0.018_0^{+0.018}$	5 $+0.050_0^{+0.050}$	18.0 $+0.3_0^{+0.3}$	2-M4	16H	16 $+0.018_0^{+0.018}$	5 $+0.030_0^{+0.030}$	18.3 $+0.3_0^{+0.3}$	2-M4	16J	16 $+0.018_0^{+0.018}$	5 ± 0.0150	18.3 $+0.3_0^{+0.3}$	2-M4	16P	16 $+0.018_0^{+0.018}$	5 $-0.012_0^{-0.042}$	18.3 $+0.3_0^{+0.3}$	2-M4
17	17 $+0.018_0^{+0.018}$	5 $+0.050_0^{+0.050}$	19.0 $+0.3_0^{+0.3}$	2-M4	17H	17 $+0.018_0^{+0.018}$	5 $+0.030_0^{+0.030}$	19.3 $+0.3_0^{+0.3}$	2-M4	17J	17 $+0.018_0^{+0.018}$	5 ± 0.0150	19.3 $+0.3_0^{+0.3}$	2-M4	17P	17 $+0.018_0^{+0.018}$	5 $-0.012_0^{-0.042}$	19.3 $+0.3_0^{+0.3}$	2-M4
18	18 $+0.018_0^{+0.018}$	5 $+0.050_0^{+0.050}$	20.0 $+0.3_0^{+0.3}$	2-M4	18H	18 $+0.018_0^{+0.018}$	6 $+0.030_0^{+0.030}$	20.8 $+0.3_0^{+0.3}$	2-M5	18J	18 $+0.018_0^{+0.018}$	6 ± 0.0150	20.8 $+0.3_0^{+0.3}$	2-M5	18P	18 $+0.018_0^{+0.018}$	6 $-0.012_0^{-0.042}$	20.8 $+0.3_0^{+0.3}$	2-M5
19	19 $+0.021_0^{+0.021}$	5 $+0.050_0^{+0.050}$	21.0 $+0.3_0^{+0.3}$	2-M4	19H	19 $+0.021_0^{+0.021}$	6 $+0.030_0^{+0.030}$	21.8 $+0.3_0^{+0.3}$	2-M5	19J	19 $+0.021_0^{+0.021}$	6 ± 0.0150	21.8 $+0.3_0^{+0.3}$	2-M5	19P	19 $+0.021_0^{+0.021}$	6 $-0.012_0^{-0.042}$	21.8 $+0.3_0^{+0.3}$	2-M5
20	20 $+0.021_0^{+0.021}$	5 $+0.050_0^{+0.050}$	22.0 $+0.3_0^{+0.3}$	2-M4	20H	20 $+0.021_0^{+0.021}$	6 $+0.030_0^{+0.030}$	22.8 $+0.3_0^{+0.3}$	2-M5	20J	20 $+0.021_0^{+0.021}$	6 ± 0.0150	22.8 $+0.3_0^{+0.3}$	2-M5	20P	20 $+0.021_0^{+0.021}$	6 $-0.012_0^{-0.042}$	22.8 $+0.3_0^{+0.3}$	2-M5
22	22 $+0.021_0^{+0.021}$	7 $+0.061_0^{+0.061}$	25.0 $+0.3_0^{+0.3}$	2-M6	22H	22 $+0.021_0^{+0.021}$	6 $+0.030_0^{+0.030}$	24.8 $+0.3_0^{+0.3}$	2-M5	22J	22 $+0.021_0^{+0.021}$	6 ± 0.0150	24.8 $+0.3_0^{+0.3}$	2-M5	22P	22 $+0.021_0^{+0.021}$	6 $-0.012_0^{-0.042}$	24.8 $+0.3_0^{+0.3}$	2-M5
24	24 $+0.021_0^{+0.021}$	7 $+0.061_0^{+0.061}$	27.0 $+0.3_0^{+0.3}$	2-M6	24H	24 $+0.021_0^{+0.021}$	8 $+0.036_0^{+0.036}$	27.3 $+0.3_0^{+0.3}$	2-M6	24J	24 $+0.021_0^{+0.021}$	8 ± 0.0180	27.3 $+0.3_0^{+0.3}$	2-M6	24P	24 $+0.021_0^{+0.021}$	8 $-0.015_0^{-0.051}$	27.3 $+0.3_0^{+0.3}$	2-M6
25	25 $+0.021_0^{+0.021}$	7 $+0.061_0^{+0.061}$	28.0 $+0.3_0^{+0.3}$	2-M6	25H	25 $+0.021_0^{+0.021}$	8 $+0.036_0^{+0.036}$	28.3 $+0.3_0^{+0.3}$	2-M6	25J	25 $+0.021_0^{+0.021}$	8 ± 0.0180	28.3 $+0.3_0^{+0.3}$	2-M6	25P	25 $+0.021_0^{+0.021}$	8 $-0.015_0^{-0.051}$	28.3 $+0.3_0^{+0.3}$	2-M6
28	28 $+0.021_0^{+0.021}$	7 $+0.061_0^{+0.061}$	31.0 $+0.3_0^{+0.3}$	2-M6	28H	28 $+0.021_0^{+0.021}$	8 $+0.036_0^{+0.036}$	31.3 $+0.3_0^{+0.3}$	2-M6	28J	28 $+0.021_0^{+0.021}$	8 ± 0.0180	31.3 $+0.3_0^{+0.3}$	2-M6	28P	28 $+0.021_0^{+0.021}$	8 $-0.015_0^{-0.051}$	31.3 $+0.3_0^{+0.3}$	2-M6
30	30 $+0.021_0^{+0.021}$	7 $+0.061_0^{+0.061}$	33.0 $+0.3_0^{+0.3}$	2-M6	30H	30 $+0.021_0^{+0.021}$	8 $+0.036_0^{+0.036}$	33.3 $+0.3_0^{+0.3}$	2-M6	30J	30 $+0.021_0^{+0.021}$	8 ± 0.0180	33.3 $+0.3_0^{+0.3}$	2-M6	30P	30 $+0.021_0^{+0.021}$	8 $-0.015_0^{-0.051}$	33.3 $+0.3_0^{+0.3}$	2-M6
32	32 $+0.025_0^{+0.025}$	10 $+0.061_0^{+0.061}$	35.5 $+0.3_0^{+0.3}$	2-M8	32H	32 $+0.025_0^{+0.025}$	10 $+0.036_0^{+0.036}$	35.3 $+0.3_0^{+0.3}$	2-M8	32J	32 $+0.025_0^{+0.025}$	10 ± 0.0180	35.3 $+0.3_0^{+0.3}$	2-M8	32P	32 $+0.025_0^{+0.025}$	10 $-0.015_0^{-0.051}$	35.3 $+0.3_0^{+0.3}$	2-M8
35	35 $+0.025_0^{+0.025}$	10 $+0.061_0^{+0.061}$	38.5 $+0.3_0^{+0.3}$	2-M8	35H	35 $+0.025_0^{+0.025}$	10 $+0.036_0^{+0.036}$	38.3 $+0.3_0^{+0.3}$	2-M8	35J	35 $+0.025_0^{+0.025}$	10 ± 0.0180	38.3 $+0.3_0^{+0.3}$	2-M8	35P	35 $+0.025_0^{+0.025}$	10 $-0.015_0^{-0.051}$	38.3 $+0.3_0^{+0.3}$	2-M8
38	38 $+0.025_0^{+0.025}$	10 $+0.061_0^{+0.061}$	41.5 $+0.3_0^{+0.3}$	2-M8	38H	38 $+0.025_0^{+0.025}$	10 $+0.036_0^{+0.036}$	41.3 $+0.3_0^{+0.3}$	2-M8	38J	38 $+0.025_0^{+0.025}$	10 ± 0.0180	41.3 $+0.3_0^{+0.3}$	2-M8	38P	38 $+0.025_0^{+0.025}$	10 $-0.015_0^{-0.051}$	41.3 $+0.3_0^{+0.3}$	2-M8
40	40 $+0.025_0^{+0.025}$	10 $+0.061_0^{+0.061}$	43.5 $+0.3_0^{+0.3}$	2-M8	40H	40 $+0.025_0^{+0.025}$	12 $+0.043_0^{+0.043}$	43.3 $+0.3_0^{+0.3}$	2-M8	40J	40 $+0.025_0^{+0.025}$	12 ± 0.0215	43.3 $+0.3_0^{+0.3}$	2-M8	40P	40 $+0.025_0^{+0.025}$	12 $-0.018_0^{-0.061}$	43.3 $+0.3_0^{+0.3}$	2-M8
42	42 $+0.025_0^{+0.025}$	12 $+0.075_0^{+0.075}$	45.5 $+0.3_0^{+0.3}$	2-M8	42H	42 $+0.025_0^{+0.025}$	12 $+0.043_0^{+0.043}$	45.3 $+0.3_0^{+0.3}$	2-M8	42J	42 $+0.025_0^{+0.025}$	12 ± 0.0215	45.3 $+0.3_0^{+0.3}$	2-M8	42P	42 $+0.025_0^{+0.025}$	12 $-0.018_0^{-0.061}$	45.3 $+0.3_0^{+0.3}$	2-M8
45	45 $+0.025_0^{+0.025}$	12 $+0.075_0^{+0.075}$	48.5 $+0.3_0^{+0.3}$	2-M8	45H	45 $+0.025_0^{+0.025}$	14 $+0.043_0^{+0.043}$	48.8 $+0.3_0^{+0.3}$	2-M10	45J	45 $+0.025_0^{+0.025}$	14 ± 0.0215	48.8 $+0.3_0^{+0.3}$	2-M10	45P	45 $+0.025_0^{+0.025}$	14 $-0.018_0^{-0.061}$	48.8 $+0.3_0^{+0.3}$	2-M10
48	48 $+0.025_0^{+0.025}$	12 $+0.075_0^{+0.075}$	51.5 $+0.3_0^{+0.3}$	2-M8	48H	48 $+0.025_0^{+0.025}$	14 $+0.043_0^{+0.043}$	51.8 $+0.3_0^{+0.3}$	2-M10	48J	48 $+0.025_0^{+0.025}$	14 ± 0.0215	51.8 $+0.3_0^{+0.3}$	2-M10	48P	48 $+0.025_0^{+0.025}$	14 $-0.018_0^{-0.061}$	51.8 $+0.3_0^{+0.3}$	2-M10
50	50 $+0.025_0^{+0.025}$	12 $+0.075_0^{+0.075}$	53.5 $+0.3_0^{+0.3}$	2-M8	50H	50 $+0.025_0^{+0.025}$	14 $+0.043_0^{+0.043}$	53.8 $+0.3_0^{+0.3}$	2-M10	50J	50 $+0.025_0^{+0.025}$	14 ± 0.0215	53.8 $+0.3_0^{+0.3}$	2-M10	50P	50 $+0.025_0^{+0.025}$	14 $-0.018_0^{-0.061}$	53.8 $+0.3_0^{+0.3}$	2-M10
55	55 $+0.030_0^{+0.030}$	15 $+0.075_0^{+0.075}$	60.0 $+0.3_0^{+0.3}$	2-M10	55H	55 $+0.030_0^{+0.030}$	16 $+0.043_0^{+0.043}$	59.3 $+0.3_0^{+0.3}$	2-M10	55J	55 $+0.030_0^{+0.030}$	16 ± 0.0215	59.3 $+0.3_0^{+0.3}$	2-M10	55P	55 $+0.030_0^{+0.030}$	16 $-0.018_0^{-0.061}$	59.3 $+0.3_0^{+0.3}$	2-M10
56	56 $+0.030_0^{+0.030}$	15 $+0.075_0^{+0.075}$	61.0 $+0.3_0^{+0.3}$	2-M10	56H	56 $+0.030_0^{+0.030}$	16 $+0.043_0^{+0.043}$	60.3 $+0.3_0^{+0.3}$	2-M10	56J	56 $+0.030_0^{+0.030}$	16 ± 0.0215	60.3 $+0.3_0^{+0.3}$	2-M10	56P	56 $+0.030_0^{+0.030}$	16 $-0.018_0^{-0.061}$	60.3 $+0.3_0^{+0.3}$	2-M10
60	60 $+0.030_0^{+0.030}$	15 $+0.075_0^{+0.075}$	65.0 $+0.3_0^{+0.3}$	2-M10	60H	60 $+0.030_0^{+0.030}$	18 $+0.043_0^{+0.043}$	64.4 $+0.3_0^{+0.3}$	2-M10	60J	60 $+0.030_0^{+0.030}$	18 ± 0.0215	64.4 $+0.3_0^{+0.3}$	2-M10	60P	60 $+0.030_0^{+0.030}$	18 $-0.018_0^{-0.061}$	64.4 $+0.3_0^{+0.3}$	2-M10

Models compliant with the motor standard JIS C 4210 2001

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

SFS Models

Items Checked for Design Purposes

Special Items to Take Note of

You should note the following to prevent any problems.

- (1) Always be careful of parallel, angular, and axial misalignment.
- (2) Always tighten bolts with the specified torque.

Precautions for Handling

SFS models are delivered as components. Select whether to assemble by mounting flange hubs on each shaft and coupling shafts in both directions by mounting the element last, while centering, or to assemble by completing couplings first and then inserting them onto the shafts.

When using the assembly method that completes couplings first, take extra precautions when handling couplings. Subjecting assembled couplings to strong shocks may affect mounting accuracy and cause the parts to break during use.

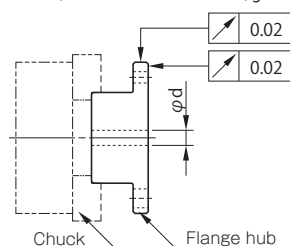
- (1) Couplings are designed for use within an operating temperature range of -30° C to 120° C. Although the couplings are designed to be waterproof and oilproof, do not subject them to excessive amounts of water and oil as it may cause part deterioration.
- (2) Handle the element with care as it is made of a thin stainless steel metal disc, also making sure to be careful so as not to injure yourself.
- (3) For frictional coupling types, do not tighten up pressure bolts until after inserting the mounting shaft.
- (4) Mounting shaft to frictional coupling types is assumed to be a round shaft.

Centering and Finishing When Drilling Bores in Flange Hubs

Keep the following in mind when processing bore diameters in pilot-bore products.

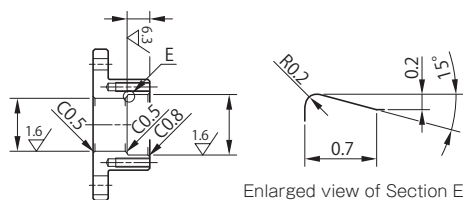
Centering

After adjusting the chuck so that runout of each flange hub is no more than the precision of the figure below, finish the inner diameter, guided by the figure below.



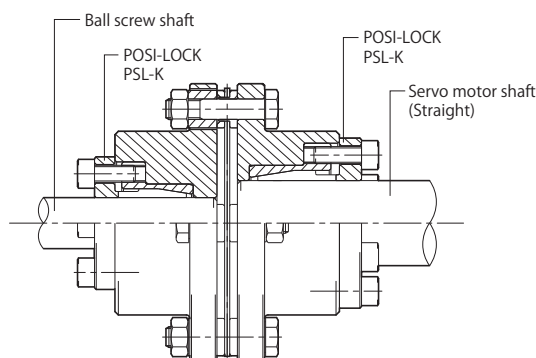
Taper ring (RfN8006) specifications

Finish as shown in the figure below if you are processing for a connection by means of a taper ring (RfN8006).



Finishing/mounting example

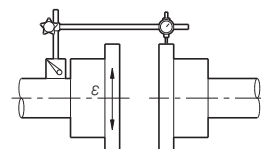
The example shows a pilot-bore type of flange hub processed for a POSI-LOCK PSL-K, a shaft lock made by Miki Pulley, and connected to a straight shaft.



Centering

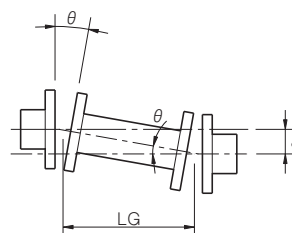
Parallel misalignment (ϵ)

Lock the dial gauge in place on one shaft and then measure the runout of the paired flange hub's outer periphery while rotating that shaft. Since couplings on which the elements (discs) are a set SFS(S) types do not allow parallel misalignment, get as close to zero as possible. For couplings that allow the entire length to be freely set SFS(G) types, use the following formula to calculate allowable parallel misalignment.



$$\epsilon = \tan \theta \times LG$$

ϵ : Allowable parallel misalignment
 θ : 1°



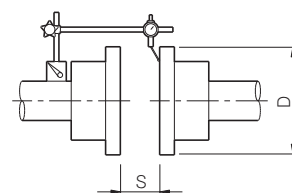
$$LG = LS + S$$

LS: Total length of spacer
 S: Dimension of gap between flange hub and spacer

Angular deflection (θ)

Lock the dial gauge in place on one shaft and then measure the runout of the end surface near the paired flange hub's outer periphery while rotating that shaft.

Adjust runout B so that $\theta \leq 1^\circ$ in the following formula.



$$B = D \times \tan \theta$$

B: Runout
 D: Flange hub outer diameter
 θ : 1°

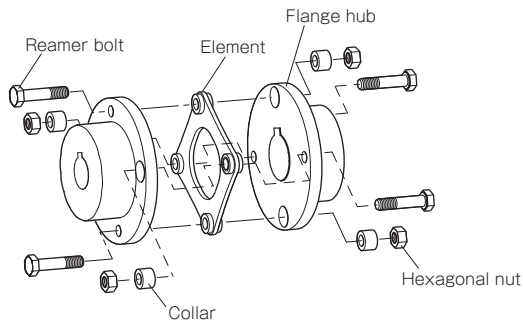
Axial displacement (S)

In addition, restrict the dimension between flange hub faces (S in the diagram) within the allowable error range for axial displacement with respect to a reference value. Note that the tolerance values were calculated based on the assumption that both the level of parallel misalignment and angular deflection are zero. Adjust to keep this value as low as possible.

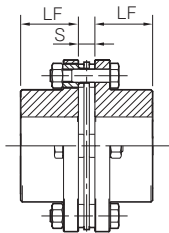
*On the SFS(S), this is the dimension of the gap between two flange hubs. On the SFS(W/G), dimension S is the gap between the flange hub and the spacer.

Mounting

This assembly method mounts a flange hub on each shaft of the SFS models and couples shafts in both directions by mounting the element last, while centering.



- (1) Remove any rust, dust, oil residue, etc. from inner diameter surfaces of the shaft and flange hubs. In particular, never allow oil or grease containing antifriction or other agent (molybdenum-, silicon-, or fluorine-based), which would dramatically affect the friction coefficient, to contact the surface.
- (2) Insert each shaft far enough into the flange hub that the paired mounting shaft touches the shaft along the entire length of the flange hub (LF dimension), as shown in the diagram below, and does not interfere with the elements, spacers or the other shaft.



- (3) Mount the other flange hub on the paired mounting shaft as described in steps (1) and (2).
- (4) Keep the width of the dimension between flange hub faces (S dimension in the diagram) within the allowable error range for axial misalignment with respect to the reference value. Note that the tolerance values were calculated based on the assumption that both the level of parallel misalignment and angular deflection are zero. Adjust to keep this value as low as possible.

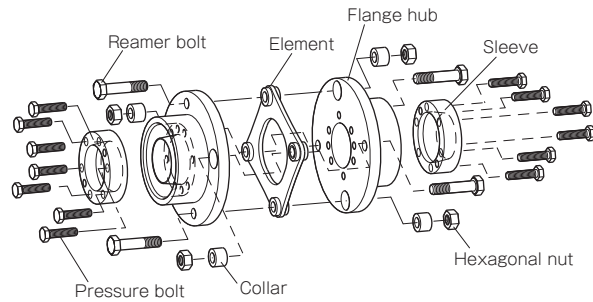
Coupling size	05	06	08	09	10	12	14
S [mm]	5	6	6	8	10	11	12

- (5) Insert the element into the gap between the two flange hubs, and then mount it with the reamer bolt for locking the element in place. Check that the element is not deformed. If it is, it may be under an axial force or there may be insufficient lubrication between the collar, bolt, and disc, so adjust to bring it to normal. The situation may be improved by applying a small amount of machine oil to the bearing surface of the reamer bolt. However, never use any oil or grease containing antifriction or other agent (molybdenum-, silicon-, or fluorine-based) which would dramatically affect the friction coefficient.
- (6) Use a calibrated torque wrench to tighten all the reamer bolts to the tightening torques of the table below.

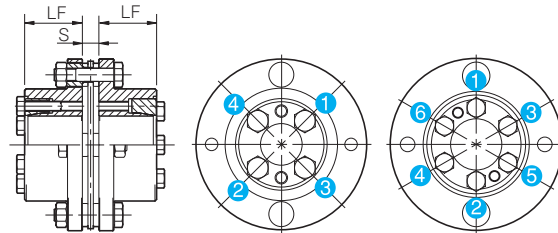
Coupling size	05	06	08	09	10	12	14
Reamer bolt size	M5	M6	M6	M8	M8	M10	M12
Tightening torque [N·m] Black oxide finish (standard) specification	8	14	14	34	34	68	118
Tightening torque [N·m] Electroless nickel plating [°C] specification	6	11	11	26	26	51	90

Mounting (Frictional Coupling Hub Types)

This assembly method mounts a flange hub on each shaft of the SFS (frictional coupling hub) type and couples both shafts by mounting the element last while centering.



- (1) Loosen the pressure bolts of the flange hubs, check that the sleeve can move freely, and then remove any rust, dust, oil residue, etc. from the inner diameter surfaces of the shaft and flange hubs. In particular, never allow oil or grease containing antifriction or other agent (molybdenum-, silicon-, or fluorine-based), which would dramatically affect the friction coefficient, to contact the surface.
- (2) Insert each shaft far enough into the flange hub that the paired mounting shaft touches the shaft along the entire length of the flange hub (LF dimension), as shown in the diagram below, and does not interfere with the elements, spacers or the other shaft. Then, holding them in place, tighten the pressure bolts evenly, a little at a time on the diagonal, following the tightening sequence shown in the figure below.



- (3) Mount the other flange hub on the paired mounting shaft as described in steps (1) and (2).
- (4) Keep the width of the dimension between flange hub faces (S dimension in the diagram) within the allowable error range for axial misalignment with respect to the reference value. Note that the tolerance values were calculated based on the assumption that both the level of parallel misalignment and angular deflection are zero. Adjust to keep this value as low as possible.

Coupling size	06	08	09	10	12	14
S [mm]	6	6	8	10	11	12

- (5) Insert the element into the gap between the two flange hubs, and then mount it with the reamer bolt for locking the element in place. Check that the element is not deformed. If it is, it may be under an axial force or there may be insufficient lubrication between the collar, bolt, and disc, so adjust to bring it to normal. The situation may be improved by applying a small amount of machine oil to the bearing surface of the reamer bolt. However, never use any oil or grease containing antifriction or other agent (molybdenum-, silicon-, or fluorine-based) which would dramatically affect the friction coefficient.
- (6) Use a calibrated torque wrench to tighten all the reamer and pressure bolts to the tightening torques of the table below.

Coupling size	06	08	09	10	12	14
Reamer bolt size	M6	M6	M8	M8	M10	M12
Tightening torque [N·m]	14	14	34	34	68	118
Pressure bolt size	M5	M6	M6	M6	M8	M8
Tightening torque [N·m]	8	14	14	14	34	34

- (7) To protect against initial loosening of the pressure bolts, we recommend operating for a set period of time and then retightening to the appropriate tightening torque.

COUPLINGS

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SERIES

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	Rubber and Plastic Couplings CENTAFLEX

MODELS

SFC

SFS

SFF

SFM

SFH

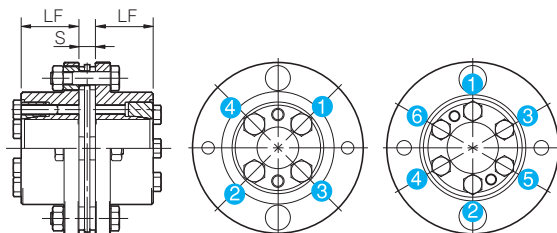
SFS Models

Items Checked for Design Purposes

Mounting (When Mounted After Coupling Is Completed)

This assembly method first completes the coupling and then inserts it onto the shaft.

- (1) Remove any rust, dust, oil or the like from the inner diameter surfaces of the shaft and flange hubs. In particular, never allow oil or grease containing antifriction or other agent (molybdenum-, silicon-, or fluorine-based), which would dramatically affect the friction coefficient, to contact the surface.
For types that use frictional coupling, loosen the flange hub's pressure bolt and check that the sleeve can move freely.
- (2) Be careful when inserting the couplings into the shaft so as not to apply excessive force of compression or tensile force to the element. Be particularly careful not to mistakenly apply excessive compression force when inserting couplings into the paired shaft after mounting on one shaft.
- (3) For frictional coupling types, with the pressure bolts loosened, make sure that couplings move gently in the axial and rotational directions. Readjust the centering of the two shafts if the couplings fail to move smoothly enough.
- (4) Insert each shaft far enough into the flange hub that the paired mounting shaft touches the shaft along the entire length of the flange hub (LF dimension), as shown in the diagram below. Then position it so that it does not interfere with the elements, spacers or the other shaft and lock it in place. For frictional coupling types, tighten the pressure bolts evenly, a little at a time on the diagonal, following the tightening sequence shown in the figure below.



- (5) Keep the width of the dimension between flange hub faces (S dimension in the diagram) within the allowable error range for axial misalignment with respect to the reference value. Note that the tolerance values were calculated based on the assumption that both the level of parallel misalignment and angular deflection are zero. Adjust to keep this value as low as possible.

Coupling size	05	06	08	09	10	12	14
S [mm]	5	6	6	8	10	11	12

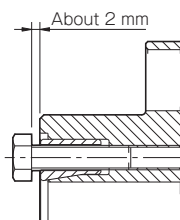
- (6) Use a calibrated torque wrench to tighten all the pressure bolts to the appropriate tightening torques of the table below.

Coupling size	06	08	09	10	12	14
Pressure bolt size	M5	M6	M6	M6	M8	M8
Tightening torque [N·m]	8	14	14	14	34	34

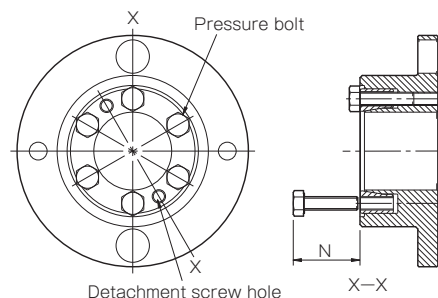
- (7) To protect against initial loosening of the pressure bolts, we recommend operating for a set period of time and then retightening to the appropriate tightening torque.

Removal

- (1) Check to confirm that there is no torque or axial direction load being applied to the coupling. There may be cases where a torque is applied to the coupling, particularly when the safety brake is being used. Make sure to verify that this is not occurring before removing parts.
- (2) Loosen all the pressure bolts placing pressure on the sleeve until the gap between bearing seat and sleeve is about 2 mm.
In the case of a tapered coupling system, the mechanism will be self-locking, so the coupling between flange hub and shaft cannot be released. (Note that in some cases, a coupling can be released.) For that reason, when designing couplings, a space must be installed for inserting a detachment screw. If there is no space in the axial direction, consult Miki Pulley.



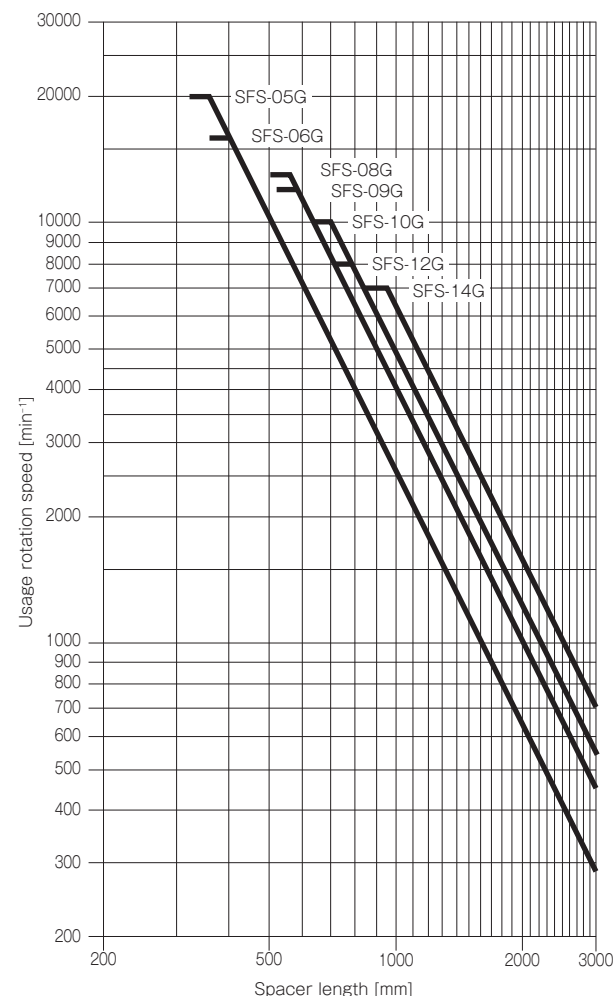
- (3) Pull out two of the pressure bolts loosened in step (2), insert them into detachment screw holes at two locations on the sleeve, and tighten them alternately, a little at a time. The coupling between the flange hub and shaft will be released.



Coupling size	06	08	09	10	12	14
Nominal diameter of pressure bolt X Length	M5 × 20	M6 × 24	M6 × 24	M6 × 24	M8 × 25	M8 × 25
Recommended N dimension [mm]	26	30	30	30	31.5	31.5

Limit Rotation Speed

For SFS(G) long spacer types, the speed at which the coupling can be used will vary with the length of spacer selected. Use the following table to confirm that the speed you will use is at or below the limit rotation speed. When a max. rotation speed is set for a specific type, that speed is the upper limit.



Points to Consider Regarding the Feed Screw System

In feed screw systems using a stepper motor or servo motor, the pulsation natural frequency of the stepper motor and the torsional natural frequency of the system as a whole may cause the system to resonate, or the gain adjustment of the servo motor may cause the system to oscillate.

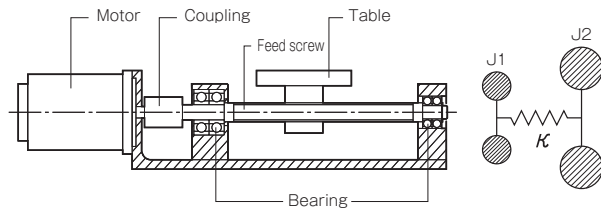
If resonance occurs, the resonant rotation speed must be skipped, or if oscillation occurs, adjustment will need to be made such as by using the filter function or other electrical control system to resolve the issue.

In either instance, to handle resonance and oscillation, it will be necessary to take into account the torsional natural frequency for the system overall during the design stage, including the torsional stiffness for the coupling and feed screw section and the moment of inertia and other characteristics. Please contact Miki Pulley with any questions regarding these issues.

How to Find the Natural Frequency of a Feed Screw System

Select a coupling based on the nominal and maximum torque of the stepper motor or servo motor.

Next, find the overall natural frequency, N_f , from the torsional stiffness of the coupling and feed screw, κ , the moment of inertia of driving side, J_1 , and the moment of inertia of driven side, J_2 , for the feed screw system shown below.



Natural frequency of overall feed screw system N_f [Hz]

$$N_f = \frac{1}{2\pi} \sqrt{\kappa \left(\frac{1}{J_1} + \frac{1}{J_2} \right)}$$

κ : Torsional stiffness of the coupling and feed screw [N·m/rad]
 J_1 : Moment of inertia of driving side [kg·m²]
 J_2 : Moment of inertia of driven side [kg·m²]

Torsional spring constant of coupling and feed screw κ [N·m/rad]

$$\frac{1}{\kappa} = \frac{1}{\kappa_c} + \frac{1}{\kappa_b}$$

κ_c : Torsional spring constant of coupling [N·m/rad]
 κ_b : Torsional spring constant of feed screw [N·m/rad]

Driving moment of inertia J_1 [kg·m²]

$$J_1 = J_m + \frac{J_c}{2}$$

J_m : Moment of inertia of servomotor [kg·m²]
 J_c : Moment of inertia of coupling [kg·m²]

Driven moment of inertia J_2 [kg·m²]

$$J_2 = J_b + J_t + \frac{J_c}{2}$$

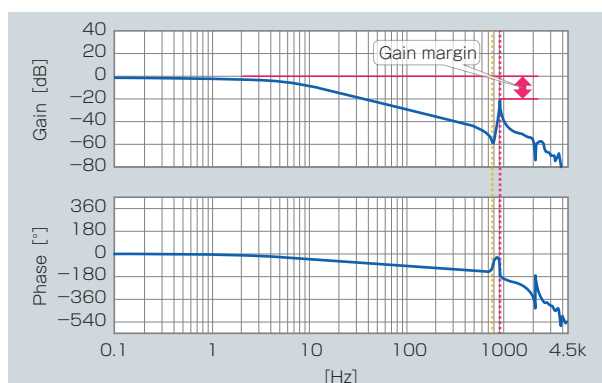
J_b : Moment of inertia of feedscrew [kg·m²]
 J_t : Moment of inertia of table [kg·m²]
 J_c : Moment of inertia of coupling [kg·m²]

Moment of inertia of table J_t [kg·m²]

$$J_t = \frac{M \times P^2}{4\pi^2}$$

M : Mass of table [kg]
 P : Lead of feed screw [m]

Since it is easier for oscillation to occur when the gain margin with natural frequency is 10 dB or lower, it is necessary for the natural frequency to be set high with a therefore higher gain margin at the design stage, or to adjust the natural frequency using the servomotor's electric tuning function (filter function) so as to avoid oscillation.



Selection Procedures

- (1) Find the torque, T_a , applied to the coupling using the output capacity, P , of the driver and the usage rotation speed, n .

$$T_a \text{ [N·m]} = 9550 \times \frac{P \text{ [kW]}}{n \text{ [min}^{-1}\text{]}}$$

- (2) Determine the factor κ from the load properties, and find the corrected torque, T_d , applied to the coupling.

$T_d = T_a \times K$ (Refer to the table below for values)

	Constant	Vibrations: Small	Vibrations: Medium	Vibrations: Large
Load properties				
K	1.0	1.25	1.75	2.25

For servo motor drive, multiply the maximum torque, T_s , by the usage factor $K = 1.2$ to 1.5 .

$T_d = T_s \times (1.2 \text{ to } 1.5)$

- (3) Set the size so that the rated coupling torque, T_n , is higher than the corrected torque, T_d .

$T_n \geq T_d$

- (4) The rated torque of the coupling may be limited by the bore diameter of the coupling. See the table showing the bore diameters that limit rated torque.

- (5) Check that the mount shaft is no larger than the maximum bore diameter of the coupling.

Contact Miki Pulley for assistance with any device experiencing extreme periodic vibrations.

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