

SERVOFLEX SFS G - Datasheet

DOUBLE ELEMENT TYPE / FLOATING SHAFT TYPE

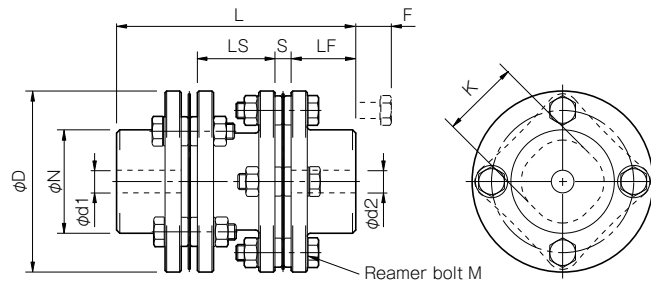
Key/Set Screw Type

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	2	± 1.2	20000	8000	21	0.20 × 10 ⁻³	0.50
SFS-06G	40	0.5	2	± 1.6	16000	14000	22	0.55 × 10 ⁻³	0.90
SFS-08G	80	0.5	2	± 2.0	13000	41000	30	1.50 × 10 ⁻³	1.70
SFS-09G	180	0.6	2	± 2.4	12000	85000	61	2.90 × 10 ⁻³	2.40
SFS-10G	250	0.6	2	± 2.8	10000	125000	80	4.60 × 10 ⁻³	3.30
SFS-12G	450	0.8	2	± 3.2	8000	215000	98	11.80 × 10 ⁻³	5.80
SFS-14G	800	0.9	2	± 3.6	7000	390000	156	21.20 × 10 ⁻³	8.60

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

Dimensions



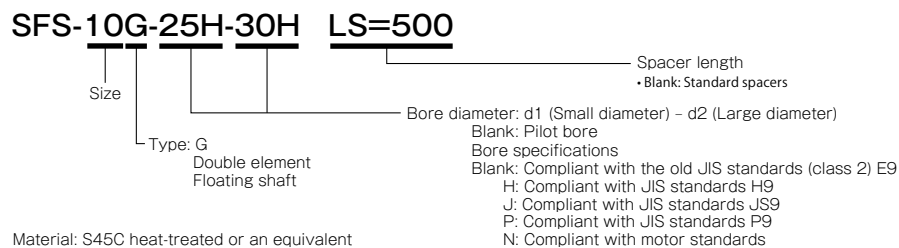
Model	d1 · d2			D	N	L	LF	LS	S	F	K	M
	Pilot bore	Min.	Max.									
SFS-05G	7	8	20	56	32	74	20	24	5	11	24	8-M5 × 22
SFS-06G	7	8	25	68	40	86	25	24	6	10	30	8-M6 × 25
SFS-08G	10	11	35	82	54	98	30	26	6	11	38	8-M6 × 29
SFS-09G	10	11	38	94	58	106	30	30	8	21	42	8-M8 × 36
SFS-10G	15	16	42	104	68	120	35	30	10	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

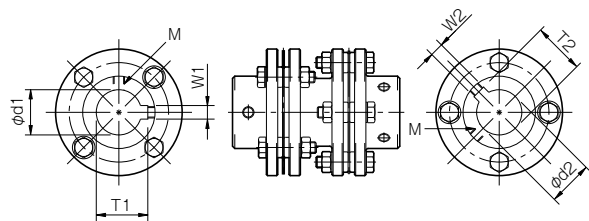
Model	Standard bore diameter d1 · d2 [mm]																												
	8	9	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	56	60	
SFS-05G	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SFS-06G	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SFS-08G				●	●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

How to Place an Order



Material: S45C heat-treated or an equivalent

Standard Hole-Drillings



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	—	—	2-M4	8H	8 ^{+0.022} ₀	3 ^{+0.025} ₀	9.4 ^{+0.3} ₀	2-M4	8J	8 ^{+0.022} ₀	3 ± 0.0125	9.4 ^{+0.3} ₀	2-M4	8P	8 ^{+0.022} ₀	3 ^{-0.006} _{-0.031}	9.4 ^{+0.3} ₀	2-M4
9	9 ^{+0.022} ₀	—	—	2-M4	9H	9 ^{+0.022} ₀	3 ^{+0.025} ₀	10.4 ^{+0.3} ₀	2-M4	9J	9 ^{+0.022} ₀	3 ± 0.0125	10.4 ^{+0.3} ₀	2-M4	9P	9 ^{+0.022} ₀	3 ^{-0.006} _{-0.031}	10.4 ^{+0.3} ₀	2-M4
10	10 ^{+0.022} ₀	—	—	2-M4	10H	10 ^{+0.022} ₀	3 ^{+0.025} ₀	11.4 ^{+0.3} ₀	2-M4	10J	10 ^{+0.022} ₀	3 ± 0.0125	11.4 ^{+0.3} ₀	2-M4	10P	10 ^{+0.022} ₀	3 ^{-0.006} _{-0.031}	11.4 ^{+0.3} ₀	2-M4
11	11 ^{+0.018} ₀	—	—	2-M4	11H	11 ^{+0.018} ₀	4 ^{+0.030} ₀	12.8 ^{+0.3} ₀	2-M4	11J	11 ^{+0.018} ₀	4 ± 0.0150	12.8 ^{+0.3} ₀	2-M4	11P	11 ^{+0.018} ₀	4 ^{-0.012} _{-0.042}	12.8 ^{+0.3} ₀	2-M4
12	12 ^{+0.018} ₀	4 ^{+0.050} _{+0.020}	13.5 ^{+0.3} ₀	2-M4	12H	12 ^{+0.018} ₀	4 ^{+0.030} ₀	13.8 ^{+0.3} ₀	2-M4	12J	12 ^{+0.018} ₀	4 ± 0.0150	13.8 ^{+0.3} ₀	2-M4	12P	12 ^{+0.018} ₀	4 ^{-0.012} _{-0.042}	13.8 ^{+0.3} ₀	2-M4
14	14 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	16.0 ^{+0.3} ₀	2-M4	14H	14 ^{+0.018} ₀	5 ^{+0.030} ₀	16.3 ^{+0.3} ₀	2-M4	14J	14 ^{+0.018} ₀	5 ± 0.0150	16.3 ^{+0.3} ₀	2-M4	14P	14 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	16.3 ^{+0.3} ₀	2-M4
15	15 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	17.0 ^{+0.3} ₀	2-M4	15H	15 ^{+0.018} ₀	5 ^{+0.030} ₀	17.3 ^{+0.3} ₀	2-M4	15J	15 ^{+0.018} ₀	5 ± 0.0150	17.3 ^{+0.3} ₀	2-M4	15P	15 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	17.3 ^{+0.3} ₀	2-M4
16	16 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	18.0 ^{+0.3} ₀	2-M4	16H	16 ^{+0.018} ₀	5 ^{+0.030} ₀	18.3 ^{+0.3} ₀	2-M4	16J	16 ^{+0.018} ₀	5 ± 0.0150	18.3 ^{+0.3} ₀	2-M4	16P	16 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	18.3 ^{+0.3} ₀	2-M4
17	17 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	19.0 ^{+0.3} ₀	2-M4	17H	17 ^{+0.018} ₀	5 ^{+0.030} ₀	19.3 ^{+0.3} ₀	2-M4	17J	17 ^{+0.018} ₀	5 ± 0.0150	19.3 ^{+0.3} ₀	2-M4	17P	17 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	19.3 ^{+0.3} ₀	2-M4
18	18 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	20.0 ^{+0.3} ₀	2-M4	18H	18 ^{+0.018} ₀	6 ^{+0.030} ₀	20.8 ^{+0.3} ₀	2-M5	18J	18 ^{+0.018} ₀	6 ± 0.0150	20.8 ^{+0.3} ₀	2-M5	18P	18 ^{+0.018} ₀	6 ^{-0.012} _{-0.042}	20.8 ^{+0.3} ₀	2-M5
19	19 ^{+0.021} ₀	5 ^{+0.050} _{+0.020}	21.0 ^{+0.3} ₀	2-M4	19H	19 ^{+0.021} ₀	6 ^{+0.030} ₀	21.8 ^{+0.3} ₀	2-M5	19J	19 ^{+0.021} ₀	6 ± 0.0150	21.8 ^{+0.3} ₀	2-M5	19P	19 ^{+0.021} ₀	6 ^{-0.012} _{-0.042}	21.8 ^{+0.3} ₀	2-M5
20	20 ^{+0.021} ₀	5 ^{+0.050} _{+0.020}	22.0 ^{+0.3} ₀	2-M4	20H	20 ^{+0.021} ₀	6 ^{+0.030} ₀	22.8 ^{+0.3} ₀	2-M5	20J	20 ^{+0.021} ₀	6 ± 0.0150	22.8 ^{+0.3} ₀	2-M5	20P	20 ^{+0.021} ₀	6 ^{-0.012} _{-0.042}	22.8 ^{+0.3} ₀	2-M5
22	22 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	25.0 ^{+0.3} ₀	2-M6	22H	22 ^{+0.021} ₀	6 ^{+0.030} ₀	24.8 ^{+0.3} ₀	2-M5	22J	22 ^{+0.021} ₀	6 ± 0.0150	24.8 ^{+0.3} ₀	2-M5	22P	22 ^{+0.021} ₀	6 ^{-0.012} _{-0.042}	24.8 ^{+0.3} ₀	2-M5
24	24 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	27.0 ^{+0.3} ₀	2-M6	24H	24 ^{+0.021} ₀	8 ^{+0.036} ₀	27.3 ^{+0.3} ₀	2-M6	24J	24 ^{+0.021} ₀	8 ± 0.0180	27.3 ^{+0.3} ₀	2-M6	24P	24 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	27.3 ^{+0.3} ₀	2-M6
25	25 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	28.0 ^{+0.3} ₀	2-M6	25H	25 ^{+0.021} ₀	8 ^{+0.036} ₀	28.3 ^{+0.3} ₀	2-M6	25J	25 ^{+0.021} ₀	8 ± 0.0180	28.3 ^{+0.3} ₀	2-M6	25P	25 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	28.3 ^{+0.3} ₀	2-M6
28	28 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	31.0 ^{+0.3} ₀	2-M6	28H	28 ^{+0.021} ₀	8 ^{+0.036} ₀	31.3 ^{+0.3} ₀	2-M6	28J	28 ^{+0.021} ₀	8 ± 0.0180	31.3 ^{+0.3} ₀	2-M6	28P	28 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	31.3 ^{+0.3} ₀	2-M6
30	30 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	33.0 ^{+0.3} ₀	2-M6	30H	30 ^{+0.021} ₀	8 ^{+0.036} ₀	33.3 ^{+0.3} ₀	2-M6	30J	30 ^{+0.021} ₀	8 ± 0.0180	33.3 ^{+0.3} ₀	2-M6	30P	30 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	33.3 ^{+0.3} ₀	2-M6
32	32 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	35.5 ^{+0.3} ₀	2-M8	32H	32 ^{+0.025} ₀	10 ^{+0.036} ₀	35.3 ^{+0.3} ₀	2-M8	32J	32 ^{+0.025} ₀	10 ± 0.0180	35.3 ^{+0.3} ₀	2-M8	32P	32 ^{+0.025} ₀	10 ^{-0.015} _{-0.051}	35.3 ^{+0.3} ₀	2-M8
35	35 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	38.5 ^{+0.3} ₀	2-M8	35H	35 ^{+0.025} ₀	10 ^{+0.036} ₀	38.3 ^{+0.3} ₀	2-M8	35J	35 ^{+0.025} ₀	10 ± 0.0180	38.3 ^{+0.3} ₀	2-M8	35P	35 ^{+0.025} ₀	10 ^{-0.015} _{-0.051}	38.3 ^{+0.3} ₀	2-M8
38	38 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	41.5 ^{+0.3} ₀	2-M8	38H	38 ^{+0.025} ₀	10 ^{+0.036} ₀	41.3 ^{+0.3} ₀	2-M8	38J	38 ^{+0.025} ₀	10 ± 0.0180	41.3 ^{+0.3} ₀	2-M8	38P	38 ^{+0.025} ₀	10 ^{-0.015} _{-0.051}	41.3 ^{+0.3} ₀	2-M8
40	40 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	43.5 ^{+0.3} ₀	2-M8	40H	40 ^{+0.025} ₀	12 ^{+0.043} ₀	43.3 ^{+0.3} ₀	2-M8	40J	40 ^{+0.025} ₀	12 ± 0.0215	43.3 ^{+0.3} ₀	2-M8	40P	40 ^{+0.025} ₀	12 ^{-0.018} _{-0.061}	43.3 ^{+0.3} ₀	2-M8
42	42 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	45.5 ^{+0.3} ₀	2-M8	42H	42 ^{+0.025} ₀	12 ^{+0.043} ₀	45.3 ^{+0.3} ₀	2-M8	42J	42 ^{+0.025} ₀	12 ± 0.0215	45.3 ^{+0.3} ₀	2-M8	42P	42 ^{+0.025} ₀	12 ^{-0.018} _{-0.061}	45.3 ^{+0.3} ₀	2-M8
45	45 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	48.5 ^{+0.3} ₀	2-M8	45H	45 ^{+0.025} ₀	14 ^{+0.043} ₀	48.8 ^{+0.3} ₀	2-M10	45J	45 ^{+0.025} ₀	14 ± 0.0215	48.8 ^{+0.3} ₀	2-M10	45P	45 ^{+0.025} ₀	14 ^{-0.018} _{-0.061}	48.8 ^{+0.3} ₀	2-M10
48	48 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	51.5 ^{+0.3} ₀	2-M8	48H	48 ^{+0.025} ₀	14 ^{+0.043} ₀	51.8 ^{+0.3} ₀	2-M10	48J	48 ^{+0.025} ₀	14 ± 0.0215	51.8 ^{+0.3} ₀	2-M10	48P	48 ^{+0.025} ₀	14 ^{-0.018} _{-0.061}	51.8 ^{+0.3} ₀	2-M10
50	50 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	53.5 ^{+0.3} ₀	2-M8	50H	50 ^{+0.025} ₀	14 ^{+0.043} ₀	53.8 ^{+0.3} ₀	2-M10	50J	50 ^{+0.025} ₀	14 ± 0.0215	53.8 ^{+0.3} ₀	2-M10	50P	50 ^{+0.025} ₀	14 ^{-0.018} _{-0.061}	53.8 ^{+0.3} ₀	2-M10
55	55 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	60.0 ^{+0.3} ₀	2-M10	55H	55 ^{+0.030} ₀	16 ^{+0.043} ₀	59.3 ^{+0.3} ₀	2-M10	55J	55 ^{+0.030} ₀	16 ± 0.0215	59.3 ^{+0.3} ₀	2-M10	55P	55 ^{+0.030} ₀	16 ^{-0.018} _{-0.061}	59.3 ^{+0.3} ₀	2-M10
56	56 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	61.0 ^{+0.3} ₀	2-M10	56H	56 ^{+0.030} ₀	16 ^{+0.043} ₀	60.3 ^{+0.3} ₀	2-M10	56J	56 ^{+0.030} ₀	16 ± 0.0215	60.3 ^{+0.3} ₀	2-M10	56P	56 ^{+0.030} ₀	16 ^{-0.018} _{-0.061}	60.3 ^{+0.3} ₀	2-M10
60	60 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	65.0 ^{+0.3} ₀	2-M10	60H	60 ^{+0.030} ₀	18 ^{+0.043} ₀	64.4 ^{+0.3} ₀	2-M10	60J	60 ^{+0.030} ₀	18 ± 0.0215	64.4 ^{+0.3} ₀	2-M10	60P	60 ^{+0.030} ₀	18 ^{-0.018} _{-0.061}	64.4 ^{+0.3} ₀	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]
	Tolerance G7, F7	Tolerance H9	—	—
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

Set Screw Position

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

NOTE

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

SERVOFLEX SFS G-C - Datasheet

DOUBLE ELEMENT / FLOATING SHAFT TYPE

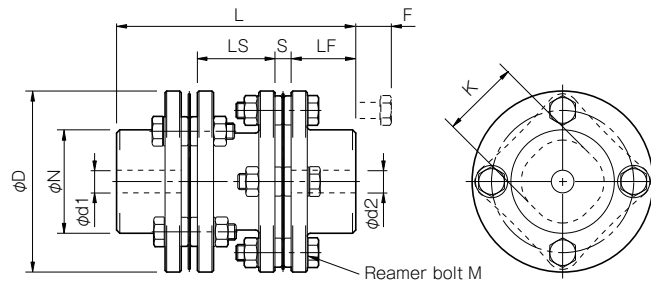
Electroless nickel coat / Key/Set Screw Type

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-C	15	0.5	2	± 1.2	20000	8000	21	0.20 × 10 ⁻³	0.50
SFS-06G-C	30	0.5	2	± 1.6	16000	14000	22	0.55 × 10 ⁻³	0.90
SFS-08G-C	60	0.5	2	± 2.0	13000	41000	30	1.50 × 10 ⁻³	1.70
SFS-09G-C	135	0.6	2	± 2.4	12000	85000	61	2.90 × 10 ⁻³	2.40
SFS-10G-C	190	0.6	2	± 2.8	10000	125000	80	4.60 × 10 ⁻³	3.30
SFS-12G-C	340	0.8	2	± 3.2	8000	215000	98	11.80 × 10 ⁻³	5.80
SFS-14G-C	600	0.9	2	± 3.6	7000	390000	156	21.20 × 10 ⁻³	8.60

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

Dimensions



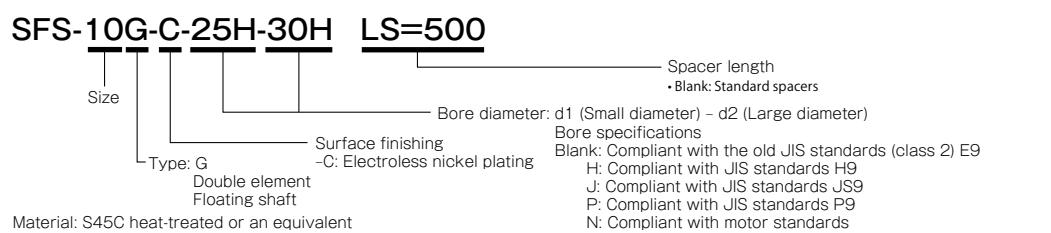
Model	d1 · d2		D	N	L	LF	LS	S	F	K	M
	Min.	Max.									
SFS-05G-C	8	20	56	32	74	20	24	5	11	24	8-M5 × 22
SFS-06G-C	8	25	68	40	86	25	24	6	10	30	8-M6 × 25
SFS-08G-C	11	35	82	54	98	30	26	6	11	38	8-M6 × 29
SFS-09G-C	11	38	94	58	106	30	30	8	21	42	8-M8 × 36
SFS-10G-C	16	42	104	68	120	35	30	10	16	48	8-M8 × 36
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.

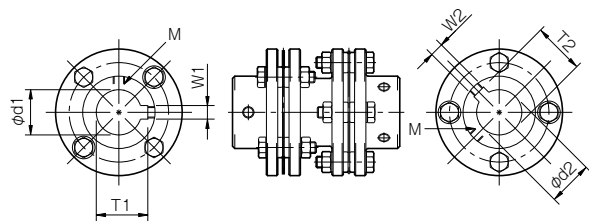
Standard Bore Diameter

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



Standard Hole-Drillings



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	—	—	2-M4	8H	8 ^{+0.022} ₀	3 ^{+0.025} ₀	9.4 ^{+0.3} ₀	2-M4	8J	8 ^{+0.022} ₀	3 ± 0.0125	9.4 ^{+0.3} ₀	2-M4	8P	8 ^{+0.022} ₀	3 ^{-0.006} _{-0.031}	9.4 ^{+0.3} ₀	2-M4
9	9 ^{+0.022} ₀	—	—	2-M4	9H	9 ^{+0.022} ₀	3 ^{+0.025} ₀	10.4 ^{+0.3} ₀	2-M4	9J	9 ^{+0.022} ₀	3 ± 0.0125	10.4 ^{+0.3} ₀	2-M4	9P	9 ^{+0.022} ₀	3 ^{-0.006} _{-0.031}	10.4 ^{+0.3} ₀	2-M4
10	10 ^{+0.022} ₀	—	—	2-M4	10H	10 ^{+0.022} ₀	3 ^{+0.025} ₀	11.4 ^{+0.3} ₀	2-M4	10J	10 ^{+0.022} ₀	3 ± 0.0125	11.4 ^{+0.3} ₀	2-M4	10P	10 ^{+0.022} ₀	3 ^{-0.006} _{-0.031}	11.4 ^{+0.3} ₀	2-M4
11	11 ^{+0.018} ₀	—	—	2-M4	11H	11 ^{+0.018} ₀	4 ^{+0.030} ₀	12.8 ^{+0.3} ₀	2-M4	11J	11 ^{+0.018} ₀	4 ± 0.0150	12.8 ^{+0.3} ₀	2-M4	11P	11 ^{+0.018} ₀	4 ^{-0.012} _{-0.042}	12.8 ^{+0.3} ₀	2-M4
12	12 ^{+0.018} ₀	4 ^{+0.050} _{+0.020}	13.5 ^{+0.3} ₀	2-M4	12H	12 ^{+0.018} ₀	4 ^{+0.030} ₀	13.8 ^{+0.3} ₀	2-M4	12J	12 ^{+0.018} ₀	4 ± 0.0150	13.8 ^{+0.3} ₀	2-M4	12P	12 ^{+0.018} ₀	4 ^{-0.012} _{-0.042}	13.8 ^{+0.3} ₀	2-M4
14	14 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	16.0 ^{+0.3} ₀	2-M4	14H	14 ^{+0.018} ₀	5 ^{+0.030} ₀	16.3 ^{+0.3} ₀	2-M4	14J	14 ^{+0.018} ₀	5 ± 0.0150	16.3 ^{+0.3} ₀	2-M4	14P	14 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	16.3 ^{+0.3} ₀	2-M4
15	15 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	17.0 ^{+0.3} ₀	2-M4	15H	15 ^{+0.018} ₀	5 ^{+0.030} ₀	17.3 ^{+0.3} ₀	2-M4	15J	15 ^{+0.018} ₀	5 ± 0.0150	17.3 ^{+0.3} ₀	2-M4	15P	15 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	17.3 ^{+0.3} ₀	2-M4
16	16 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	18.0 ^{+0.3} ₀	2-M4	16H	16 ^{+0.018} ₀	5 ^{+0.030} ₀	18.3 ^{+0.3} ₀	2-M4	16J	16 ^{+0.018} ₀	5 ± 0.0150	18.3 ^{+0.3} ₀	2-M4	16P	16 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	18.3 ^{+0.3} ₀	2-M4
17	17 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	19.0 ^{+0.3} ₀	2-M4	17H	17 ^{+0.018} ₀	5 ^{+0.030} ₀	19.3 ^{+0.3} ₀	2-M4	17J	17 ^{+0.018} ₀	5 ± 0.0150	19.3 ^{+0.3} ₀	2-M4	17P	17 ^{+0.018} ₀	5 ^{-0.012} _{-0.042}	19.3 ^{+0.3} ₀	2-M4
18	18 ^{+0.018} ₀	5 ^{+0.050} _{+0.020}	20.0 ^{+0.3} ₀	2-M4	18H	18 ^{+0.018} ₀	6 ^{+0.030} ₀	20.8 ^{+0.3} ₀	2-M5	18J	18 ^{+0.018} ₀	6 ± 0.0150	20.8 ^{+0.3} ₀	2-M5	18P	18 ^{+0.018} ₀	6 ^{-0.012} _{-0.042}	20.8 ^{+0.3} ₀	2-M5
19	19 ^{+0.021} ₀	5 ^{+0.050} _{+0.020}	21.0 ^{+0.3} ₀	2-M4	19H	19 ^{+0.021} ₀	6 ^{+0.030} ₀	21.8 ^{+0.3} ₀	2-M5	19J	19 ^{+0.021} ₀	6 ± 0.0150	21.8 ^{+0.3} ₀	2-M5	19P	19 ^{+0.021} ₀	6 ^{-0.012} _{-0.042}	21.8 ^{+0.3} ₀	2-M5
20	20 ^{+0.021} ₀	5 ^{+0.050} _{+0.020}	22.0 ^{+0.3} ₀	2-M4	20H	20 ^{+0.021} ₀	6 ^{+0.030} ₀	22.8 ^{+0.3} ₀	2-M5	20J	20 ^{+0.021} ₀	6 ± 0.0150	22.8 ^{+0.3} ₀	2-M5	20P	20 ^{+0.021} ₀	6 ^{-0.012} _{-0.042}	22.8 ^{+0.3} ₀	2-M5
22	22 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	25.0 ^{+0.3} ₀	2-M6	22H	22 ^{+0.021} ₀	6 ^{+0.030} ₀	24.8 ^{+0.3} ₀	2-M5	22J	22 ^{+0.021} ₀	6 ± 0.0150	24.8 ^{+0.3} ₀	2-M5	22P	22 ^{+0.021} ₀	6 ^{-0.012} _{-0.042}	24.8 ^{+0.3} ₀	2-M5
24	24 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	27.0 ^{+0.3} ₀	2-M6	24H	24 ^{+0.021} ₀	8 ^{+0.036} ₀	27.3 ^{+0.3} ₀	2-M6	24J	24 ^{+0.021} ₀	8 ± 0.0180	27.3 ^{+0.3} ₀	2-M6	24P	24 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	27.3 ^{+0.3} ₀	2-M6
25	25 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	28.0 ^{+0.3} ₀	2-M6	25H	25 ^{+0.021} ₀	8 ^{+0.036} ₀	28.3 ^{+0.3} ₀	2-M6	25J	25 ^{+0.021} ₀	8 ± 0.0180	28.3 ^{+0.3} ₀	2-M6	25P	25 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	28.3 ^{+0.3} ₀	2-M6
28	28 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	31.0 ^{+0.3} ₀	2-M6	28H	28 ^{+0.021} ₀	8 ^{+0.036} ₀	31.3 ^{+0.3} ₀	2-M6	28J	28 ^{+0.021} ₀	8 ± 0.0180	31.3 ^{+0.3} ₀	2-M6	28P	28 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	31.3 ^{+0.3} ₀	2-M6
30	30 ^{+0.021} ₀	7 ^{+0.061} _{+0.025}	33.0 ^{+0.3} ₀	2-M6	30H	30 ^{+0.021} ₀	8 ^{+0.036} ₀	33.3 ^{+0.3} ₀	2-M6	30J	30 ^{+0.021} ₀	8 ± 0.0180	33.3 ^{+0.3} ₀	2-M6	30P	30 ^{+0.021} ₀	8 ^{-0.015} _{-0.051}	33.3 ^{+0.3} ₀	2-M6
32	32 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	35.5 ^{+0.3} ₀	2-M8	32H	32 ^{+0.025} ₀	10 ^{+0.036} ₀	35.3 ^{+0.3} ₀	2-M8	32J	32 ^{+0.025} ₀	10 ± 0.0180	35.3 ^{+0.3} ₀	2-M8	32P	32 ^{+0.025} ₀	10 ^{-0.015} _{-0.051}	35.3 ^{+0.3} ₀	2-M8
35	35 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	38.5 ^{+0.3} ₀	2-M8	35H	35 ^{+0.025} ₀	10 ^{+0.036} ₀	38.3 ^{+0.3} ₀	2-M8	35J	35 ^{+0.025} ₀	10 ± 0.0180	38.3 ^{+0.3} ₀	2-M8	35P	35 ^{+0.025} ₀	10 ^{-0.015} _{-0.051}	38.3 ^{+0.3} ₀	2-M8
38	38 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	41.5 ^{+0.3} ₀	2-M8	38H	38 ^{+0.025} ₀	10 ^{+0.036} ₀	41.3 ^{+0.3} ₀	2-M8	38J	38 ^{+0.025} ₀	10 ± 0.0180	41.3 ^{+0.3} ₀	2-M8	38P	38 ^{+0.025} ₀	10 ^{-0.015} _{-0.051}	41.3 ^{+0.3} ₀	2-M8
40	40 ^{+0.025} ₀	10 ^{+0.061} _{+0.025}	43.5 ^{+0.3} ₀	2-M8	40H	40 ^{+0.025} ₀	12 ^{+0.043} ₀	43.3 ^{+0.3} ₀	2-M8	40J	40 ^{+0.025} ₀	12 ± 0.0215	43.3 ^{+0.3} ₀	2-M8	40P	40 ^{+0.025} ₀	12 ^{-0.018} _{-0.061}	43.3 ^{+0.3} ₀	2-M8
42	42 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	45.5 ^{+0.3} ₀	2-M8	42H	42 ^{+0.025} ₀	12 ^{+0.043} ₀	45.3 ^{+0.3} ₀	2-M8	42J	42 ^{+0.025} ₀	12 ± 0.0215	45.3 ^{+0.3} ₀	2-M8	42P	42 ^{+0.025} ₀	12 ^{-0.018} _{-0.061}	45.3 ^{+0.3} ₀	2-M8
45	45 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	48.5 ^{+0.3} ₀	2-M8	45H	45 ^{+0.025} ₀	14 ^{+0.043} ₀	48.8 ^{+0.3} ₀	2-M10	45J	45 ^{+0.025} ₀	14 ± 0.0215	48.8 ^{+0.3} ₀	2-M10	45P	45 ^{+0.025} ₀	14 ^{-0.018} _{-0.061}	48.8 ^{+0.3} ₀	2-M10
48	48 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	51.5 ^{+0.3} ₀	2-M8	48H	48 ^{+0.025} ₀	14 ^{+0.043} ₀	51.8 ^{+0.3} ₀	2-M10	48J	48 ^{+0.025} ₀	14 ± 0.0215	51.8 ^{+0.3} ₀	2-M10	48P	48 ^{+0.025} ₀	14 ^{-0.018} _{-0.061}	51.8 ^{+0.3} ₀	2-M10
50	50 ^{+0.025} ₀	12 ^{+0.075} _{+0.032}	53.5 ^{+0.3} ₀	2-M8	50H	50 ^{+0.025} ₀	14 ^{+0.043} ₀	53.8 ^{+0.3} ₀	2-M10	50J	50 ^{+0.025} ₀	14 ± 0.0215	53.8 ^{+0.3} ₀	2-M10	50P	50 ^{+0.025} ₀	14 ^{-0.018} _{-0.061}	53.8 ^{+0.3} ₀	2-M10
55	55 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	60.0 ^{+0.3} ₀	2-M10	55H	55 ^{+0.030} ₀	16 ^{+0.043} ₀	59.3 ^{+0.3} ₀	2-M10	55J	55 ^{+0.030} ₀	16 ± 0.0215	59.3 ^{+0.3} ₀	2-M10	55P	55 ^{+0.030} ₀	16 ^{-0.018} _{-0.061}	59.3 ^{+0.3} ₀	2-M10
56	56 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	61.0 ^{+0.3} ₀	2-M10	56H	56 ^{+0.030} ₀	16 ^{+0.043} ₀	60.3 ^{+0.3} ₀	2-M10	56J	56 ^{+0.030} ₀	16 ± 0.0215	60.3 ^{+0.3} ₀	2-M10	56P	56 ^{+0.030} ₀	16 ^{-0.018} _{-0.061}	60.3 ^{+0.3} ₀	2-M10
60	60 ^{+0.030} ₀	15 ^{+0.075} _{+0.032}	65.0 ^{+0.3} ₀	2-M10	60H	60 ^{+0.030} ₀	18 ^{+0.043} ₀	64.4 ^{+0.3} ₀	2-M10	60J	60 ^{+0.030} ₀	18 ± 0.0215	64.4 ^{+0.3} ₀	2-M10	60P	60 ^{+0.030} ₀	18 ^{-0.018} _{-0.061}	64.4 ^{+0.3} ₀	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]
	Tolerance G7, F7	Tolerance H9	—	—
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

Set Screw Position

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

NOTE

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

SERVOFLEX SFS G-M-C - Datasheet

DOUBLE ELEMENT / FLOATING SHAFT TYPE

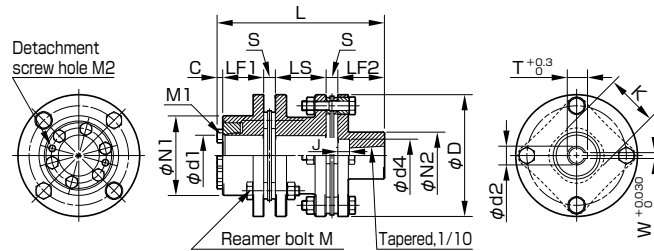
Conical clamp hub / Tapered Shaft Supported

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-06G-□ M-11C	40	0.5	2	± 1.6	5000	14000	22	0.54 × 10 ⁻³	1.00
SFS-06G-□ M-16C	40	0.5	2	± 1.6	5000	14000	22	0.59 × 10 ⁻³	1.10
SFS-08G-□ M-16C	80	0.5	2	± 2.0	5000	41000	30	1.47 × 10 ⁻³	1.90
SFS-09G-□ M-16C	180	0.6	2	± 2.4	5000	85000	61	2.80 × 10 ⁻³	2.60

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

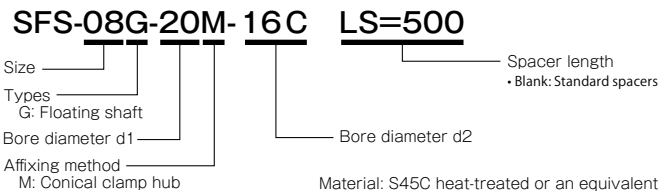
Dimensions



Model	Bore diameter	d1	d2	W +0.030 0	T +0.3 0	d4	J	D	N1	N2	L	LF1	LF2	LS	S	C	K	M	M1	M2	Unit [mm]
SFS-06G	□ M-11C	12 · 14 · 15	11	4	12.2	18	9	68	40	30	90.8	25	25	24	6	4.8	30	8-M6 × 25	4-M5	2-M5	
	□ M-16C	15	16	5	17.3	28	10	68	40	40	105.8	25	40	24	6	4.8	30	8-M6 × 25	4-M5	2-M5	
SFS-08G	□ M-16C	15 · 16 · 17 · 18 · 19 · 20 · 22	16	5	17.3	28	10	82	54	40	112.8	30	40	26	6	4.8	38	8-M6 × 29	4-M6	2-M6	
SFS-09G	□ M-16C	25 · 28	16	5	17.3	28	10	94	58	40	120.8	30	40	30	8	4.8	42	8-M8 × 36	6-M6	2-M6	
		30 · 32 · 35																			

• Further dimensions for LS possible on request.
 • 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



SERVOFLEX SFS G-M-M - Datasheet

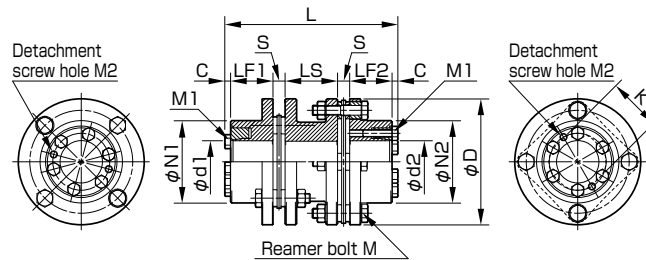
DOUBLE ELEMENT / FLOATING SHAFT TYPE / Conical clamp hub

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-06G-□M-□M	40	0.5	2	± 1.6	5000	14000	22	0.55 × 10 ⁻³	1.10
SFS-08G-□M-□M	80	0.5	2	± 2.0	5000	41000	30	1.56 × 10 ⁻³	2.00
SFS-09G-□M-□M	180	0.6	2	± 2.4	5000	85000	61	3.10 × 10 ⁻³	2.80
SFS-10G-□M-□M	250	0.6	2	± 2.8	5000	125000	80	4.70 × 10 ⁻³	3.50
SFS-12G-□M-□M	450	0.8	2	± 3.2	5000	215000	98	12.10 × 10 ⁻³	6.50
SFS-14G-35M-35M	580	0.9	2	± 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.
- Higher rpm possible with balancing.
- The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions



Model	Bore diameter	d1	d2	D	N1	N2	L	LF1	LF2	LS	S	C	K	M	M1	M2	Unit [mm]
SFS-06G	□M-□M	12 · 14 · 15	12 · 14 · 15	68	40	40	95.6	25	25	24	6	4.8	30	8-M6 × 25	4-M5	2-M5	
SFS-08G	□M-□M	15 · 16 · 17 · 18 · 19 · 20 · 22	15 · 16 · 17 · 18 · 19 · 20 · 22	82	54	54	107.6	30	30	26	6	4.8	38	8-M6 × 29	4-M6	2-M6	
	□M-□M	25 · 28	25 · 28	94	58	58	115.6	30	30								
SFS-09G	□M-□M	25 · 28	30 · 32 · 35	94	58	68	123.6	30	38	30	8	4.8	42	8-M8 × 36	6-M6	2-M6	
	□M-□M	30 · 32 · 35	30 · 32 · 35	94	68	68	131.6	38	38								
SFS-10G	□M-□M	25 · 28 · 30 · 32 · 35	25 · 28 · 30 · 32 · 35	104	68	68	129.6	35	35	30	10	4.8	48	8-M8 × 36	6-M6	2-M6	
SFS-12G	□M-□M	30 · 32 · 35	30 · 32 · 35	126	78	78	150.6	40	40	38	11	5.3	54	8-M10 × 45	4-M8	2-M8	
SFS-14G	35M-35M	35	35	144	88	88	170.6	45	45	46	12	5.3	61	8-M12 × 54	6-M8	2-M8	

- Further dimensions for LS possible on request.

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. 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 $^{+0.010}_{-0.025}$.

How to Place an Order

