SFS-S M-M SERVOFLEX



Compact design with built-in shaft fixing mechanism

More than necessary axial space not required as a shaft fixing mechanism is contained in the flange hub.

Low inertia

Compact design assures low inertia and reduces acceleration and deceleration time.

High concentricity

Shaft bores are machined simultaneously with the outer periphery of the flange hub and boss, featuring a good balance. Most suited for high-speed rotation.

Specification

Model		SFS-08S- []M-[]M	SFS-09S- []M-[]M	SFS-09S- []M-35M	SFS-10S- []M-[]M	SFS-12S- []M-[]M	SFS-14S- 35M-35M
Permissible To	orque (N·m)	80	180	180	250	450	580
Maximum Spe	ed (r/min)	5000	5000	5000	5000	5000	5000
Torsional Sprir Constant	ng (N·m/rad)	83 × 10 ³	170 × 10 ³	170 × 10 ³	250 × 10 ³	430 × 10 ³	780 × 10 ³
Axial Spring Con	stant (N/mm)	60	122	122	160	197	313
1 Inertia	(kg• m²)	1	1	1	1	1	1
Maximum Permissible misalignment	Angular misalignment (°)	± 1.0	± 1.2	± 1.2	± 1.4	± 1.6	± 1.8
	Axial Displacement (mm)	0.93 × 10 ⁻³	1.7 × 10 ⁻³	1.8 x 10 ⁻³	2.7 x 10 ⁻³	6.8 × 10 ⁻³	14.0 × 10 ⁻³
1 Mass	(g)	1.3	1.7	1.8	2.3	4.1	6.4

- Values marked 1 are those when bore diameter is maximum.
- The permissible torque of SFS-12S-30M-[]M is limited by the shaft fixing mechanism of 30 and will be 380 (N·m).
- \cdot The permissible torque of SFS-14S-35M-35M is limited by the shaft fixing mechanism of $\,$ 35 and will be 580 ($\,$ N \cdot m) $\,$.

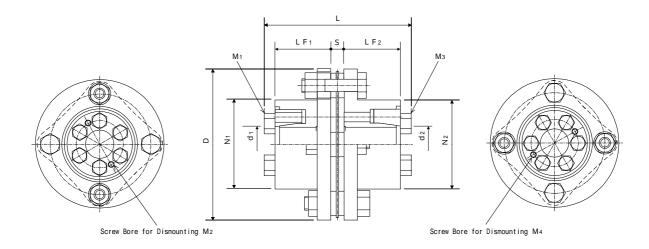
Ordering Information : Specify

S F S - S M - M

d1 d2

Bore Diameter Bore Diameter

Design Types and Dimensions



Model	SFS-08S- []M-[]M	SFS-09S- []M-[]M	SFS-09S- []M-35M	SFS-10S- []M-[]M	SFS-12S- []M-[]M	SFS-14S- 35M-35M
d 1	15• 16• 20• 22	25•28	25•28	25 • 28 • 30 • 35	30•35	35
d 2	15• 16• 20• 22	25• 28	35	25 • 28 • 30 • 35	30•35	35
D	82	94	94	104	126	144
N1	54	58	58	68	78	88
N2	54	58	68	68	78	88
L	75.6	77.6	85.6	89.6	101.6	112.6
LF1	30	30	30	35	40	45
LF2	30	30	38	35	40	45
S	6	8	8	10	11	12
M1	4-M6	6-M6	6-M6	6-M6	4-M8	6-M8
M2	2-M6	2-M6	2-M6	2-M6	2-M8	2-M8
M3	4-M6	6-M6	6-M6	6-M6	4-M8	6-M8
M4	2-M6	2-M6	2-M6	2-M6	2-M8	2-M8

[•] The recommended machining tolerance of the mate mounting shaft is h7. ($^{+0.010}_{-0.025}$ when shaft diameter is 35.

[•] SFS-09S-[]M-35M is paired with a stepped flange. A reamer bolt cannot be inserted from the 35 side