

SERVOFLEX SFU SS – Datasheet

SINGLE ELEMENT TYPE

Specifications

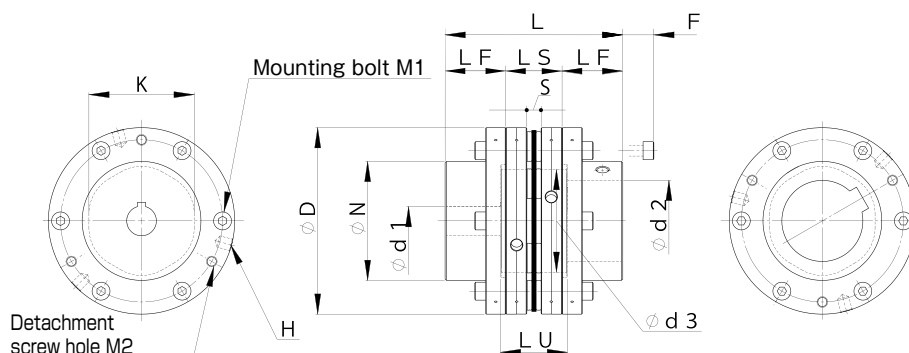
Model	Rated torque [N·m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N·m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]
		Parallel [mm]	Angular [°]	Axial [mm]					
SFU-070SS-100N	100	0.02	1	±0.5	18000	240000	484	0.53×10^{-3}	0.86
SFU-080SS-200N	200	0.02	1	±0.5	17000	310000	546	1.26×10^{-3}	1.52
SFU-090SS-300N	300	0.02	1	±0.6	15000	520000	321	2.01×10^{-3}	1.90
SFU-100SS-450N	450	0.02	1	±0.65	13000	740000	540	3.88×10^{-3}	3.01
SFU120SS-600N	600	0.02	1	±0.8	11000	970000	360	8.17×10^{-3}	4.31
SFU-140SS-1000N	1000	0.02	1	±1.0	9500	1400000	360	18.43×10^{-3}	6.93

• 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 · d2 [mm]		D [mm]	N [mm]	L [mm]	LU [mm]	LS [mm]	LF [mm]	S [mm]	F [mm]	d3 [mm]	K [mm]	M1 Quantity – Nominal dia.	M1 Tightening torque [N·m]
	Min.	Max.												
SFU-070SS-100N	8	25	68	40	69.9	28.7	23.9	23	5.9	1	36	38	6-M4	3.4
SFU-080SS-200N	11	35	78	54	82.7	36.5	30.7	26	7.7	5	38	42	6-M6	14
SFU-090SS-300N	11	38	88	58	90.3	37.3	30.3	30	8.3	2	48	50	6-M6	14
SFU-100SS-450N	16	42	98	68	106.2	43.2	36.2	35	10.2	0	50	56	6-M8	34
SFU120SS-600N	19	50	118	78	112.2	43.2	36.2	38	10.2	1	66	68	6-M8	34
SFU-140SS-1000N	22	60	138	88	131.6	48.6	41.6	45	10.6	8	76	78	6-M8	34

How to Place an Order

SFU-080SS-25H-30H-200N

Size

Type

SS: Single element

Nominal rated torque
(Refer to the specifications)

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

Material: S45C heat-treated or an equivalent