

SERVOFLEX SFU DS – Datasheet

DOUBLE ELEMENT TYPE

Specifications

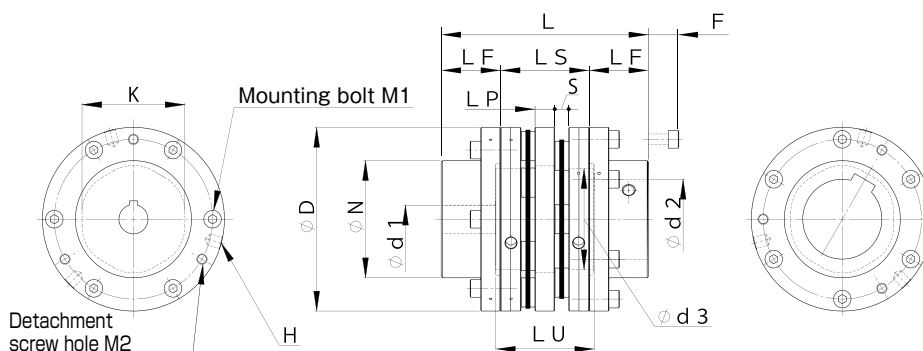
Model	Rated torque [N·m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N·m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]
		Parallel [mm]	Angular [°]	Axial [mm]					
SFU-070DS-100N	100	0.25	2	±1.0	14000	120000	242	0.66×10^{-3}	1.04
SFU-080DS-200N	200	0.31	2	±1.0	13000	155000	273	1.58×10^{-3}	1.86
SFU-090DS-300N	300	0.32	2	±1.2	12000	260000	160.5	2.50×10^{-3}	2.29
SFU-100DS-450N	450	0.38	2	±1.3	10000	370000	270	4.83×10^{-3}	3.63
SFU120DS-600N	600	0.38	2	±1.6	8000	485000	180	10.02×10^{-3}	5.09
SFU-140DS-1000N	1000	0.44	2	±2.0	7000	700000	180	22.57×10^{-3}	8.27

• 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]	LP [mm]	S [mm]	F [mm]	d3 [mm]	K [mm]	M1 Quantity – Nominal dia.	M1 Tightening torque [N·m]
	Min.	Max.													
SFU-070DS-100N	8	25	68	40	83.8	42.6	37.8	23	8	5.9	1	36	38	6-M4	3.4
SFU-080DS-200N	11	35	78	54	100.4	54.2	48.4	26	10	7.7	5	38	42	6-M6	14
SFU-090DS-300N	11	38	88	58	108.6	55.6	48.6	30	10	8.3	2	48	50	6-M6	14
SFU-100DS-450N	16	42	98	68	128.4	65.4	58.4	35	12	10.2	0	50	56	6-M8	34
SFU120DS-600N	19	50	118	78	134.4	65.4	58.4	38	12	10.2	1	66	68	6-M8	34
SFU-140DS-1000N	22	60	138	88	157.2	74.2	67.2	45	15	10.6	8	76	78	6-M8	34

How to Place an Order

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

Size

Type

DS: Double 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