

SERVOFLEX SFM SS-K-K – Datasheet

CONICAL CLAMP HUB

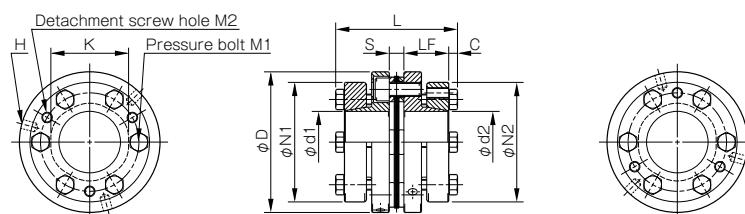
Specifications

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]					
SFM-070SS-□ K-□ K-100N	100	0.02	1	± 0.5	24000	240000	484	0.66×10^{-3}	0.92
SFM-080SS-□ K-□ K-150N	150	0.02	1	± 0.5	24000	120000	96	1.21×10^{-3}	1.03
SFM-080SS-□ K-□ K-200N	200	0.02	1	± 0.5	24000	310000	546	1.11×10^{-3}	1.26
SFM-090SS-□ K-□ K-300N	300	0.02	1	± 0.6	24000	520000	321	1.75×10^{-3}	1.48
SFM-100SS-□ K-□ K-450N	450	0.02	1	± 0.65	20000	740000	540	2.56×10^{-3}	1.87
SFM-120SS-□ K-□ K-600N	600	0.02	1	± 0.8	20000	970000	360	5.33×10^{-3}	2.50
SFM-140SS-□ K-□ K-800N	800	0.02	1	± 1.0	20000	1400000	360	10.28×10^{-3}	4.66
SFM-140SS-□ K-□ K-1000N	1000	0.02	1	± 1.0	20000	1400000	360	14.70×10^{-3}	5.01

• 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 [mm]	d2 [mm]	D [mm]	L [mm]	N1 · N2 [mm]	LF [mm]	S [mm]	C [mm]	K [mm]	H [mm]	M1 Qty – Nominal dia.	M1 Tightening torque [N·m]	M2 Qty – Nominal dia.
SFM-070SS-□ K-□ K-100N	18 · 19	18 · 19	68	62.9	53	23.5	5.9	5	38	3-5.1	6-M6	10	3-M6
	20 · 22 · 24 · 25	20 · 22 · 24 · 25			58								
	28 · 30	28 · 30			63								
	32 · 35	32 · 35			68								
SFM-080SS-□ K-□ K-150N	22 · 24 · 25	22 · 24 · 25	78	69.3	58	25.5	8.3	5	37	4-5.1	4-M6	10	2-M6
	28 · 30	28 · 30			63								
	32 · 35	32 · 35			68								
	—	38			73								
SFM-080SS-□ K-□ K-200N	22 · 24 · 25	22 · 24 · 25	78	68.7	58	25.5	7.7	5	42	3-5.1	6-M6	10	3-M6
	28 · 30	28 · 30			63								
	32 · 35	32 · 35			68								
	38	38			73								
SFM-090SS-□ K-□ K-300N	28 · 30	28 · 30	88	69.3	63	25.5	8.3	5	50	3-6.8	6-M6	10	3-M6
	32 · 35	32 · 35			68								
	45	45			78								
	48	48			83								
SFM-100SS-□ K-□ K-450N	32 · 35	32 · 35	98	75.2	68	27.5	10.2	5	56	3-6.8	6-M6	10	3-M6
	38 · 40 · 42	38 · 40 · 42			73								
	45	45			78								
	48 · 50	48 · 50			83								
SFM-120SS-□ K-□ K-600N	35	35	118	75.2	68	27.5	10.2	5	68	3-6.8	6-M6	10	3-M6
	38 · 40 · 42	38 · 40 · 42			73								
	45	45			78								
	48 · 50 · 52	48 · 50 · 52			83								
SFM-140SS-□ K-□ K-800N	55	55	138	94.6	88	36.5	10.6	5.5	78	3-8.6	6-M8	24	3-M8
	60 · 62 · 65	60 · 62 · 65			98								
	—	70			108								
	35 · 38	35 · 38			83								
SFM-140SS-□ K-□ K-1000N	40 · 42 · 45	40 · 42 · 45	138	94.6	88	36.5	10.6	5.5	78	3-8.6	6-M8	24	3-M8
	—	48 · 50 · 52			98								
	—	55 · 60			108								
	—	62 · 65 · 70			118								
SFM-140SS-□ K-□ K-1000N	—	75 · 80	138	94.6	128	36.5	10.6	5.5	78	3-8.6	6-M8	24	3-M8
	48 · 50 · 52	48 · 50 · 52			98								
	55 · 60	55 · 60			108								
	62 · 65 · 70	62 · 65 · 70			118								
	75	75 · 80			128								

Standard Bore Diameter

Model	Standard bore diameter d1 - d2 [mm]																											
	Nominal diameter	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	62	65	70	75	80				
SFM-070SS-□ K-□ K-100N	d1	●	●	●	●	●	●	●	●	●	●																	
	d2	●	●	●	●	●	●	●	●	●	●																	
SFM-080SS-□ K-□ K-150N	d1				●	●	●	●	●	●	●																	
	d2				●	●	●	●	●	●	●	●																
SFM-080SS-□ K-□ K-200N	d1				●	●	●	●	●	●	●	●																
	d2				●	●	●	●	●	●	●	●	●															
SFM-090SS-□ K-□ K-300N	d1							●	●	●	●	●	●	●	●	●												
	d2							●	●	●	●	●	●	●	●	●	●											
SFM-100SS-□ K-□ K-450N	d1									●	●	●	●	●	●	●	●	●										
	d2									●	●	●	●	●	●	●	●	●	●									
SFM-120SS-□ K-□ K-600N	d1										●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	d2										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SFM-140SS-□ K-□ K-800N	d1										●	●	●	●	●													
	d2										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SFM-140SS-□ K-□ K-1000N	d1															●	●	●	●	●	●	●	●	●	●	●	●	●
	d2															●	●	●	●	●	●	●	●	●	●	●	●	●

Balance Correction

Model (size)	Balance classification	Supported rotational speed [min ⁻¹]				
		10000 or less	15000 or less	18000 or less	20000 or less	24000 or less
SFM-070SS	G6.3 • G2.5	●	●	●	●	●
SFM-080SS	G6.3 • G2.5	●	●	●	●	●
SFM-090SS	G6.3 • G2.5	●	●	●	●	●
SFM-100SS	G6.3 • G2.5	●	●	●	●	
SFM-120SS	G6.3 • G2.5	●	●	●	●	
SFM-140SS	G6.3 • G2.5	●	●	●	●	

How to Place an Order

SFM-080SS-25KK-30KK-200N-G2.5/24000

