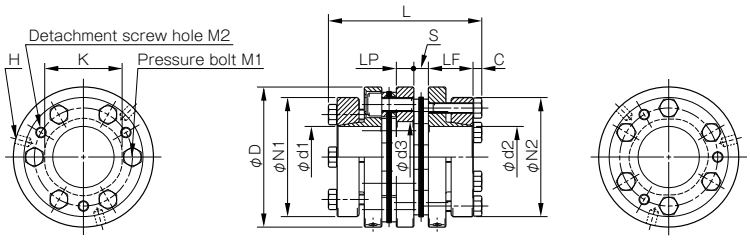
SERVOFLEX SFF DS-K-K – Datasheet
DOUBLE ELEMENT / CONICAL CLAMP HUB

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]					
SFF-070DS-☐K-☐K-100N	100	0.25	2	± 1.0	14000	120000	242	0.80×10^{-3}	1.10
SFF-080DS-☐K-☐K-150N	150	0.32	2	± 1.0	13000	60000	48	1.36×10^{-3}	1.56
SFF-080DS-☐K-☐K-200N	200	0.31	2	± 1.0	13000	155000	273	1.42×10^{-3}	1.60
SFF-090DS-☐K-☐K-300N	300	0.32	2	± 1.2	12000	260000	160.5	2.24×10^{-3}	1.87
SFF-100DS-☐K-☐K-450N	450	0.38	2	± 1.3	10000	370000	270	3.51×10^{-3}	2.49
SFF-120DS-☐K-☐K-600N	600	0.38	2	± 1.6	9000	485000	180	7.17×10^{-3}	3.29
SFF-140DS-☐K-☐K-800N	800	0.44	2	± 2.0	8000	700000	180	14.68×10^{-3}	6.05
SFF-140DS-☐K-☐K-1000N	1000	0.44	2	± 2.0	8000	700000	180	19.11×10^{-3}	6.39

- 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 [mm]	d2 [mm]	D [mm]	L [mm]	N1 • N2 [mm]	LF [mm]	LP [mm]	S [mm]	C [mm]	d3 [mm]	K [mm]	H [mm]	M1 Qty – Nominal dia.	M1 • M2 Tightening torque [N·m]	M2 Qty – Nominal dia.
SFF-070DS-☐K-☐K-100N	18 • 19	18 • 19	68	76.8	53	23.5	8	5.9	5	37	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										
SFF-080DS-☐K-☐K-150N	22 • 24 • 25	22 • 24 • 25	78	87.6	58	25.5	10	8.3	5	40	37	4-5.1	4-M6	10	2-M6
	28 • 30	28 • 30			63										
	32 • 35	32 • 35			68										
	–	38			73										
SFF-080DS-☐K-☐K-200N	22 • 24 • 25	22 • 24 • 25	78	86.4	58	25.5	10	7.7	5	40	42	3-5.1	6-M6	10	3-M6
	28 • 30	28 • 30			63										
	32 • 35	32 • 35			68										
	38	38			73										
SFF-090DS-☐K-☐K-300N	28 • 30	28 • 30	88	87.6	63	25.5	10	8.3	5	50	50	3-6.8	6-M6	10	3-M6
	32 • 35	32 • 35			68										
	38 • 40 • 42	38 • 40 • 42			73										
	45	45			78										
	48	48			83										
SFF-100DS-☐K-☐K-450N	32 • 35	32 • 35	98	97.4	68	27.5	12	10.2	5	52	56	3-6.8	6-M6	10	3-M6
	38 • 40 • 42	38 • 40 • 42			73										
	45	45			78										
	48 • 50	48 • 50			83										
SFF-120DS-☐K-☐K-600N	35	35	118	97.4	68	27.5	12	10.2	5	72	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										
	55	55			88										
	60 • 62 • 65	60 • 62 • 65			98										
	–	70			108										
SFF-140DS-☐K-☐K-800N	35 • 38	35 • 38	138	120.2	83	36.5	15	10.6	5.5	80	78	3-8.6	6-M8	24	3-M8
	40 • 42 • 45	40 • 42 • 45			88										
	–	48 • 50 • 52			98										
	–	55 • 60			108										
	–	62 • 65 • 70			118										
	–	75 • 80			128										
SFF-140DS-☐K-☐K-1000N	48 • 50 • 52	48 • 50 • 52	138	120.2	98	36.5	15	10.6	5.5	80	78	3-8.6	6-M8	24	3-M8
	55 • 60	55 • 60			108										
	62 • 65 • 70	62 • 65 • 70			118										
	75	75 • 80			128										

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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	52	55	60	62	65	70	75	80
SFF-070DS-☐K-☐K-100N	d1	●	●	●	●	●	●	●	●	●	●														
	d2	●	●	●	●	●	●	●	●	●	●														
SFF-080DS-☐K-☐K-150N	d1				●	●	●	●	●	●	●														
	d2				●	●	●	●	●	●	●	●													
SFF-080DS-☐K-☐K-200N	d1				●	●	●	●	●	●	●	●													
	d2				●	●	●	●	●	●	●	●													
SFF-090DS-☐K-☐K-300N	d1							●	●	●	●	●	●	●	●	●									
	d2							●	●	●	●	●	●	●	●	●									
SFF-100DS-☐K-☐K-450N	d1									●	●	●	●	●	●	●	●								
	d2									●	●	●	●	●	●	●	●								
SFF-120DS-☐K-☐K-600N	d1										●	●	●	●	●	●	●	●	●	●	●	●			
	d2										●	●	●	●	●	●	●	●	●	●	●	●	●		
SFF-140DS-☐K-☐K-800N	d1										●	●	●	●	●										
	d2										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SFF-140DS-☐K-☐K-1000N	d1															●	●	●	●	●	●	●	●	●	
	d2															●	●	●	●	●	●	●	●	●	●

How to Place an Order

SFF-080DS-25KK-30KK-200N

- Size
- Type
  D: Double element
- Material
  S: Steel
- Bore dia. d1 (Small dia.)
- Bore dia. d2 (Large dia.)
- Nominal rated torque
  (Refer to the specifications)
- Countershaft tolerance
  Blank: h7, K: k6, M: m6, J: j6, S: $35^{+0.010}_{0}$
- Affixing method
  K: Conical clamp hub

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