

SERVOFLEX SFC DA2 - Datasheet

DOUBLE ELEMENT TYPE

Specifications

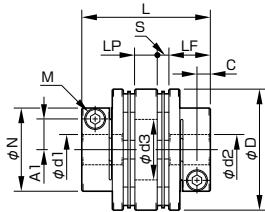
Model	Shape type	Rated torque [N·m]	Misalignment			Max. rotation speed [min ⁻¹]	Torsional stiffness [N·m/rad]	Axial stiffness [N/mm]	Moment of inertia [kg·m ²]	Mass [kg]
			Parallel [mm]	Angular [°]	Axial [mm]					
SFC-002DA2	C	0.25	0.03	1	± 0.08	10000	95	17	0.07 × 10 ⁻⁶	0.004
SFC-005DA2	C	0.6	0.05	1	± 0.1	10000	250	70	0.37 × 10 ⁻⁶	0.010
SFC-010DA2	C	1	0.11	2	± 0.2	10000	700	70	0.80 × 10 ⁻⁶	0.015
SFC-020DA2	C	2	0.15	2	± 0.33	10000	1850	32	3.43 × 10 ⁻⁶	0.035
SFC-025DA2	C	4	0.16	2	± 0.38	10000	2800	30	5.26 × 10 ⁻⁶	0.040
SFC-030DA2	A	5	0.18	2	± 0.4	10000	4000	32	7.43 × 10 ⁻⁶	0.054
	B								9.45 × 10 ⁻⁶	0.060
	C								11.56 × 10 ⁻⁶	0.068
SFC-035DA2	C	10	0.24	2	± 0.5	10000	9000	56	26.93 × 10 ⁻⁶	0.121
SFC-040DA2	A	12	0.24	2	± 0.6	10000	10000	40	29.98 × 10 ⁻⁶	0.124
	B								35.82 × 10 ⁻⁶	0.131
	C								42.52 × 10 ⁻⁶	0.146
SFC-050DA2	A	25	0.28	2	± 0.8	10000	16000	24	98.34 × 10 ⁻⁶	0.250
	B								118.9 × 10 ⁻⁶	0.268
	C								141.7 × 10 ⁻⁶	0.298
SFC-055DA2	C	40	0.31	2	± 0.84	10000	25000	21.5	261.3 × 10 ⁻⁶	0.459
SFC-060DA2	A	60	0.34	2	± 0.9	10000	35000	38.2	256.6 × 10 ⁻⁶	0.447
	B								315.7 × 10 ⁻⁶	0.489
	C								379.3 × 10 ⁻⁶	0.549
SFC-080DA2	C	100	0.52	2	± 1.10	10000	70000	64	1039 × 10 ⁻⁶	1.037
SFC-090DA2	C	180	0.52	2	± 1.30	10000	50000	54	1798 × 10 ⁻⁶	1.369
SFC-100DA2	C	250	0.55	2	± 1.48	10000	60000	55.5	2754 × 10 ⁻⁶	1.739

• The rated torque of the coupling may be limited for bore diameters.
• Higher rpm possible with balancing.

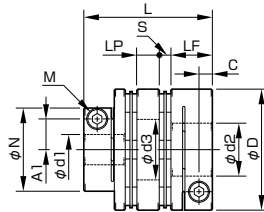
• Torsional stiffness values given are measured values for the flexible element alone.
• The moment of inertia and mass are specified for the maximum bore diameter.

Dimensions

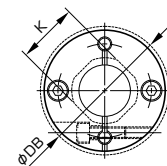
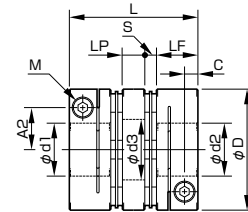
TYPE A



TYPE B



TYPE C



Model	Shape type	d1 [mm]		d2 [mm]		D [mm]	DB [mm]	N [mm]	L [mm]	LF [mm]	LP [mm]	S [mm]	A1 [mm]	A2 [mm]	C [mm]	d3 [mm]	K [mm]	M	Quantity - Nominal dia.	Tightening torque [N·m]
		Min.	Max.	Min.	Max.															
SFC-002DA2	C	3	5	3	5	12	12.4	—	15.7	5.9	2.8	0.55	—	3.7	1.9	5.2	5.6	1-M1.6	0.23 ~ 0.28	
SFC-005DA2	C	3	6	3	6	16	—	—	23.2	7.85	5.5	1	—	4.8	2.5	6.5	6.5	1-M2	0.4 ~ 0.5	
SFC-010DA2	C	3	8	3	8	19	—	—	25.9	9.15	5.5	1.05	—	5.8 (6)	3.15	8.5	8.5	1-M2.5 (M2)	1.0 ~ 1.1 (0.4 ~ 0.5)	
SFC-020DA2	C	4	10	4	11	26	—	—	32.3	10.75	7.5	1.65	—	9.5	3.3	10.6	10.6	1-M2.5	1.0 ~ 1.1	
SFC-025DA2	C	5	14	5	14	29	—	—	32.8	10.75	7.5	1.9	—	11	3.3	15	14.5	1-M2.5	1.0 ~ 1.1	
SFC-030DA2	A	5	10	5	10	34	—	21.6	37.8	12.4	8	2.5	8	—	3.75	15	14.5	1-M3	1.5 ~ 1.9	
	B	5	10	Over 10	16			21.6					8	12.5						
	C	Over 10	14	Over 10	16			—					—	12.5						
SFC-035DA2	C	6	16	6	19	39	—	—	48	15.5	11	3	—	14	4.5	17	17	1-M4	3.4 ~ 4.1	
SFC-040DA2	A	8	15	8	15	44	—	29.6	48	15.5	11	3	11	—	4.5	20	19.5	1-M4	3.4 ~ 4.1	
	B	8	15	Over 15	24			29.6					11	17						
	C	Over 15	19	Over 15	24			—					—	17						
SFC-050DA2	A	8	19	8	19	56	—	38	59.8	20.5	14	2.4	14.5	—	6	26	26	1-M5	7.0 ~ 8.5	
	B	8	19	Over 19	30			38					14.5	22						
	C	Over 19	25	Over 19	30			—					—	22						
SFC-055DA2	C	10	30	10	30	63	—	—	68.7	24	15.5	2.6	—	23	7.75	31	31	1-M6	14 ~ 15	
SFC-060DA2	A	11	24	11	24	68	—	46	73.3	25.2	16.5	3.2	17.5	—	7.75	31	31	1-M6	14 ~ 15	
	B	11	24	Over 24	35			46					17.5	26.5						
	C	Over 24	30	Over 24	35			—					—	26.5						
SFC-080DA2	C	18	35	18	40	82	—	—	98	30	22	8	—	28	9	40	38	1-M8	27 ~ 30	
SFC-090DA2	C	25	40	25	45	94	—	—	98.6	30	22	8.3	—	34	9	47	42	1-M8	27 ~ 30	
SFC-100DA2	C	32	45	32	45	104	—	—	101.6	30	22	9.8	—	39	9	50	48	1-M8	27 ~ 30	

• phi DB = Interference radius of the screw head
• The figures in parentheses () for the SFC-010 are the values when d1 or d2 is phi 8 mm.

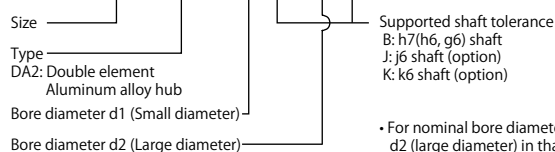
Standard Bore Diameter

		Standard (option) bore diameter, d1/d2 [mm] and related rated torque [N-m]																																
Nominal bore diameter		3	4	5	6	6.35	7	8	9	9.525	10	11	12	13	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45		
Shaft tolerance	h7 (h6 - g6)	B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	j6 (Option)	J																		○	○	○	○	○										
	k6 (Option)	K						○	○							○	○				○	○	○					○	○					
Supported bore diameter for each model	SFC-002DA2	d1	●	●	●																													
	d2	●	●	●																														
	SFC-005DA2	d1	●	●	●	●																												
	d2	●	●	●	●																													
	SFC-010DA2	d1	●	●	●	●	●	●																										
	d2	●	●	●	●	●	●	●																										
	SFC-020DA2	d1		●	●	●	●	●	●	●	●	●																						
	d2		●	●	●	●	●	●	●	●	●	●	●																					
	SFC-025DA2	d1			2.1	●	●	●	●	●	●	●	●	●	●	●																		
	d2			2.1	●	●	●	●	●	●	●	●	●	●	●	●	●																	
	SFC-030DA2	d1			2.8	3.4	●	●	●	●	●	●	●	●	●	●	●																	
	d2			2.8	3.4	●	●	●	●	●	●	●	●	●	●	●	●	●																
	SFC-035DA2	d1				5	5	6.6	●	●	●	●	●	●	●	●	●	●	●															
	d2					5	5	6.6	●	●	●	●	●	●	●	●	●	●	●	●	●													
	SFC-040DA2	d1							9	●	●	●	●	●	●	●	●	●	●	●	●	●												
	d2								9	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
	SFC-050DA2	d1								18	20	22	22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	d2									18	20	22	22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	SFC-055DA2	d1												31	34	36	38	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	d2													31	34	36	38	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SFC-060DA2	d1													50	51	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
d2														50	51	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SFC-080DA2	d1																																	
d2																																		
SFC-090DA2	d1																																	
d2																																		
SFC-100DA2	d1																																	
d2																																		

- The shaft tolerance for standard bore diameter is h7 (h6 or g6): designation B. However, for a bore diameter of ø35, the shaft tolerance is $^{+0.010}_{-0.025}$.
- Shaft tolerances j6/k6: designations J/K are optional, and are only supported for bore diameters marked with ○.
- Bore diameters marked with ● or numbers are supported as the standard bore diameters. Please contact Miki Pulley regarding special arrangements which may be possible for other bore diameters.
- Bore diameters whose fields contain numbers are restricted in their rated torque by the holding power of the shaft connection component because the bore diameter is small. The numbers indicate the rated torque [N-m].

How to Place an Order

SFC-025DA2-10B-14K



- For nominal bore diameter, select d1 (small diameter) – d2 (large diameter) in that order.
- If d1=d2 (same diameters), select B, J, and K in that order.

