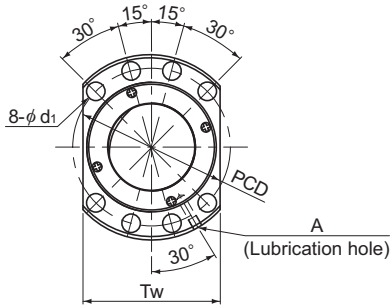
SDA-V/SDA-VZ
With Preload/No Preload

DN value	SDA-V (Caged Ball)	160,000
	SDA-VZ (Full-Ball)	130,000



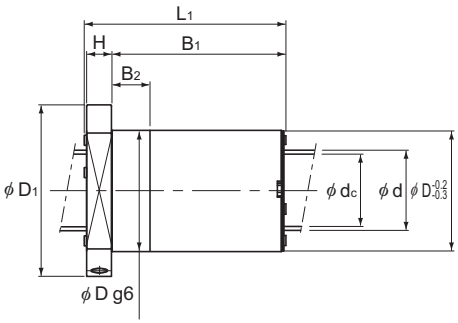
Model No.	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating				Rigidity	
						SDA-V (Caged Ball)		SDA-VZ (Full-Ball)		SDA-V (Caged Ball)	SDA-VZ (Full-Ball)
						Ca	C0a	Ca	C0a	K	K
	d	Ph	dp	dc	Rows × turns	kN	kN	kN	kN	N/μm	N/μm
SDA 3810V-5	38	10	39	32.4	1×5	63.4	117.7	60.4	123.1	629	654
SDA 3812V-5	38	12	39	32.4	1×5	63.4	117.7	60.3	123.3	628	655
SDA 3815V-5	38	15	39	32.4	1×5	63.2	117.7	60.2	123.6	627	655
SDA 3816V-5	38	16	39	32.4	1×5	63.2	117.7	60.2	123.7	627	656
SDA 3820V-5	38	20	39	32.4	1×5	63.0	111.9	60	116.9	632	657
SDA 3825V-4	38	25	39	32.4	1×4	51.1	87.8	48.6	92.7	500	525
SDA 3830V-3	38	30	39	32.4	1×3	38.7	64.9	36.9	68.2	373	390
SDA 3840V-2	38	40	39	32.4	1×2	25.7	42	24.4	43.9	244	253
○ SDA 4008VZ-5	40	8	41.25	36.4	1×5	—	—	42.2	99.4	—	663
SDA 4010VA-5	40	10	41.75	35.2	1×5	65.6	126.4	62.5	132.3	664	692
SDA 4012VA-5	40	12	41.75	35.2	1×5	65.5	126.4	62.4	132.5	664	692
SDA 4015VA-5	40	15	41.75	35.2	1×5	65.4	126.4	62.3	132.8	663	693
SDA 4016VA-5	40	16	41.75	35.2	1×5	65.4	126.4	62.3	132.9	663	693
SDA 4020VA-5	40	20	41.75	35.2	1×5	65.2	127.7	62.1	133.4	668	695
SDA 4020VA-10	40	20	41.75	35.2	2×5	118.4	254.1	112.8	266.9	1,288	1,345
SDA 4025VA-4	40	25	41.75	35.2	1×4	52.9	94.5	50.4	99.4	531	555
SDA 4030VA-3	40	30	41.75	35.2	1×3	40.1	70.3	38.2	73.1	398	412
SDA 4030VA-6	40	30	41.75	35.2	2×3	72.8	139.2	69.4	146.1	764	798
SDA 4040VA-2	40	40	41.75	35.2	1×2	26.6	44.7	25.4	46.9	256	267
SDA 4040VA-4	40	40	41.75	35.2	2×2	48.4	89.4	46.1	93.8	496	518

○: Indicates model numbers that are only compatible with Model SDA-VZ (Full-Ball type).

Model number coding

SDA3810V Z -5 TT G0 +830L C5

- SDA3810V: Model No.
- Z: Full-ball type code (No code for caged ball type)
- -5: Number of turns
- TT: Contamination protection accessory symbol [1]
- G0: Axial direction clearance code[2]
- +830L: Overall screw shaft length (in mm)
- C5: Accuracy symbol[3]



Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm	Nut mass	Shaft mass	Permissible rotational speed	
	Outer diameter	Flange diameter	Overall length							Lubrication hole				SDA-V (Caged Ball)	SDA-VZ (Full-Ball)
	D	D_1	L_1	H	B_1	B_2	PCD	d_1	T_w	A	$kg \cdot m^2/mm$	kg	kg/m	min^{-1}	min^{-1}
	63	93	65	14	50	20	78	9	70	M8×1	1.60×10^{-6}	1.1	7.79	4,100	3,330
	63	93	74	14	59	20	78	9	70	M8×1	1.60×10^{-6}	1.23	7.97	4,100	3,330
	63	93	88	14	73	20	78	9	70	M8×1	1.60×10^{-6}	1.41	8.09	4,100	3,330
	63	93	93	14	78	20	78	9	70	M8×1	1.60×10^{-6}	1.5	8.21	4,100	3,330
	63	93	112	14	97	20	78	9	70	M8×1	1.60×10^{-6}	1.77	8.35	4,100	3,330
	63	93	111	14	96	20	78	9	70	M8×1	1.60×10^{-6}	1.73	8.45	4,100	3,330
	63	93	100	14	85	20	78	9	70	M8×1	1.60×10^{-6}	1.56	8.53	4,100	3,330
	63	93	87	14	72	20	78	9	70	M8×1	1.60×10^{-6}	1.38	8.62	4,100	3,330
	61	91	55	14	41	20	76	9	68	M8×1	1.97×10^{-6}	0.81	9.08	—	3,150
	70	100	65	14	50	20	85	9	75	M8×1	1.97×10^{-6}	1.38	8.9	3,830	3,110
	70	100	74	14	59	20	85	9	75	M8×1	1.97×10^{-6}	1.55	9.06	3,830	3,110
	70	100	88	14	74	20	85	9	75	M8×1	1.97×10^{-6}	1.79	9.14	3,830	3,110
	70	100	93	14	78	20	85	9	75	M8×1	1.97×10^{-6}	1.9	9.27	3,830	3,110
	70	100	112	14	97	20	85	9	75	M8×1	1.97×10^{-6}	2.25	9.39	3,830	3,110
	70	100	112	14	97	20	85	9	75	M8×1	1.97×10^{-6}	2.22	8.81	3,830	3,110
	70	100	112	14	97	20	85	9	75	M8×1	1.97×10^{-6}	2.22	9.49	3,830	3,110
	70	100	101	14	86	20	85	9	75	M8×1	1.97×10^{-6}	2.01	9.55	3,830	3,110
	70	100	101	14	86	20	85	9	75	M8×1	1.97×10^{-6}	1.97	9.13	3,830	3,110
	70	100	88	14	73	20	85	9	75	M8×1	1.97×10^{-6}	1.77	9.63	3,830	3,110
	70	100	88	14	73	20	85	9	75	M8×1	1.97×10^{-6}	1.75	9.29	3,830	3,110