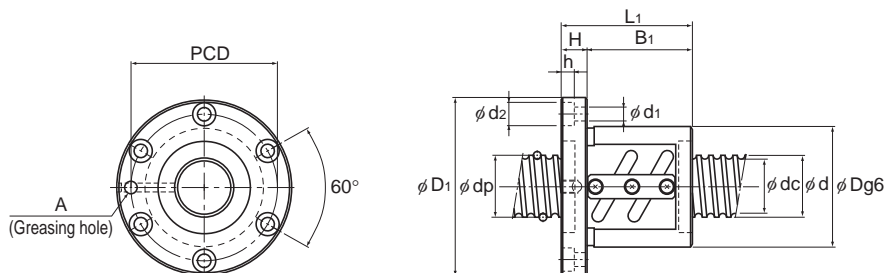


## No Preload Type of Precision Ball Screw

Screw shaft outer diameter	40
Lead	12 to 40



BNF

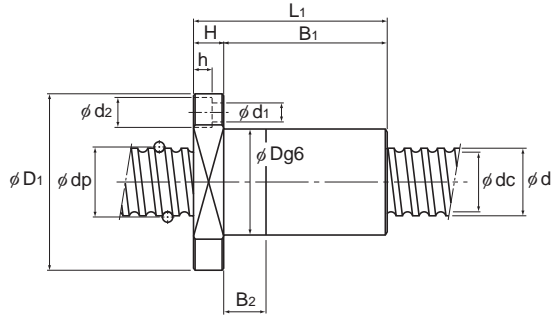
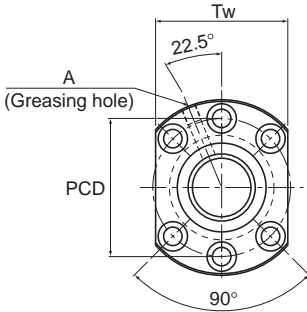
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Outer diameter	
						Ca kN	C <sub>0a</sub> kN		D	Flange diameter D <sub>1</sub>
40	12	○BNF 4012-2.5	42	34.1	1×2.5	33.9	79.2	390	84	126
		○BNF 4012-3.5	42	34.1	1×3.5	45.4	110.7	530	84	126
		○BNF 4012-5	42	34.1	2×2.5	61.6	158.3	750	84	126
		○DK 4012-3	41.75	34.4	3×1	30.6	72.3	390	62	104
		○DK 4012-4	41.75	34.4	4×1	39.2	96.4	520	62	104
	16	○BNF 4016-5	42	34.1	2×2.5	61.4	158.8	740	84	126
		○DK 4016-4	41.75	34.4	4×1	39.1	96.8	520	62	104
	20	○DK 4020-3	41.75	34.7	3×1	29.4	69.3	750	62	104
	40	BLK 4040-2.8	41.75	35.2	1×2.8	28.2	68.9	430	73	114
		BLK 4040-3.6	41.75	35.2	2×1.8	38.7	99.2	550	73	114

Note) The model numbers in dimmed type indicate semi-standard types. If desiring them, contact THK.

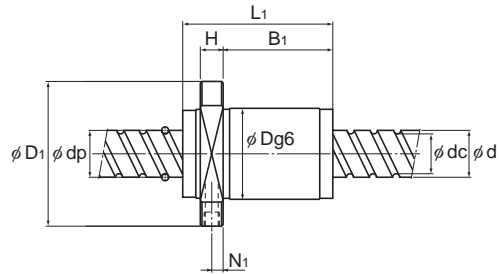
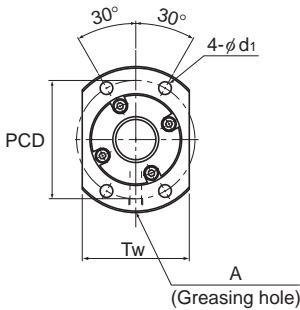
Those models marked with ○ can be attached with QZ Lubricator or the wiper ring.

For dimensions of the ball screw nut with either accessory being attached, see **A15-356**.

Large Lead Precision Ball Screw model BLK cannot be attached with seal.



DK



BLK

Unit: mm

Nut dimensions											Screw shaft inertial moment/mm <sup>2</sup>	Nut mass	Shaft mass	
Overall length	L <sub>1</sub>	H	B <sub>1</sub>	B <sub>2</sub>	PCD	d <sub>1</sub>	d <sub>2</sub>	h	Tw	N <sub>1</sub>				Greasing hole
83	18	65	—	104	11	17.5	11	—	—	—	M6	1.97×10 <sup>-2</sup>	3.31	8.12
95	18	77	—	104	11	17.5	11	—	—	—	M6	1.97×10 <sup>-2</sup>	3.66	8.12
119	18	101	—	104	11	17.5	11	—	—	—	M6	1.97×10 <sup>-2</sup>	4.36	8.12
90	18	72	20	82	11	17.5	11	79	—	—	PT 1/8	1.97×10 <sup>-2</sup>	1.77	8.5
103	18	85	25	82	11	17.5	11	79	—	—	PT 1/8	1.97×10 <sup>-2</sup>	1.95	8.5
152	22	130	—	104	11	17.5	11	—	—	—	M6	1.97×10 <sup>-2</sup>	5.52	8.55
120	18	102	30	82	11	17.5	11	79	—	—	PT 1/8	1.97×10 <sup>-2</sup>	2.19	8.83
123	18	105	30	82	11	17.5	11	79	—	—	PT 1/8	1.97×10 <sup>-2</sup>	2.23	9.03
125	17	96.5	—	93	11	—	—	84	8.5	—	M6	1.97×10 <sup>-2</sup>	3.4	9.01
85	17	56.5	—	93	11	—	—	84	8.5	—	M6	1.97×10 <sup>-2</sup>	2.48	9.01

For model number coding, see [A15-248](#).