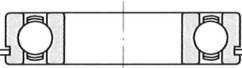
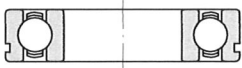
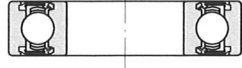
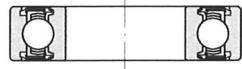
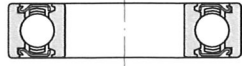
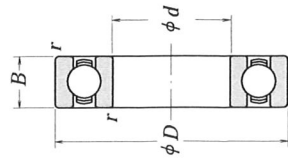


Bore Diameter 25 – 45 mm



Open Type

Shielded Type
ZZNon-Contact
Sealed Type
VVContact
Sealed Type
DD · DDUWith Snap
Ring Groove
NWith Snap
Ring
NR

Boundary Dimensions (mm)			Basic Load Ratings (N)			Factor	Limiting Speeds (min ⁻¹)				Bearing Numbers		
d	D	B	C _r	C _{0r}	C _r		Grease Open Z · ZZ V · VV	Oil DU DDU	Open Z	Open Z	Open	Shielded	Sealed
25	37	7	4 500	3 150	455	16.1	18 000	10 000	22 000	6805	ZZ	VV	DD
	42	9	7 050	4 550	715	15.4	16 000	10 000	19 000	6905	ZZ	VV	DDU
	47	8	8 850	5 600	905	15.1	15 000	—	18 000	16005	—	—	—
	47	12	10 100	5 850	1 030	14.5	15 000	9 500	18 000	6005	ZZ	VV	DDU
	52	15	14 000	7 850	1 430	13.9	13 000	9 000	15 000	6205	ZZ	VV	DDU
28	62	17	20 600	11 200	2 100	13.2	11 000	8 000	13 000	6305	ZZ	VV	DDU
	52	12	12 500	7 400	1 270	14.5	14 000	8 500	16 000	60/28	ZZ	VV	DDU
	58	16	16 600	9 500	1 700	13.9	12 000	8 000	14 000	62/28	ZZ	VV	DDU
	68	18	26 700	14 000	2 730	12.4	10 000	7 500	13 000	63/28	ZZ	VV	DDU
	30	42	7 000	3 650	480	16.4	15 000	9 000	18 000	6806	ZZ	VV	DD
32	47	9	7 250	5 000	740	15.8	14 000	8 500	17 000	6906	ZZ	VV	DDU
	55	9	7 350	7 350	1 150	15.2	13 000	—	15 000	16006	—	—	—
	55	13	13 200	8 300	1 350	14.7	13 000	8 000	15 000	6006	ZZ	VV	DDU
	62	16	19 500	11 300	1 980	13.8	11 000	7 500	13 000	6206	ZZ	VV	DDU
	72	19	26 700	15 000	2 720	13.3	9 500	6 700	12 000	6306	ZZ	VV	DDU
35	58	13	15 100	9 150	1 530	14.5	12 000	7 500	14 000	60/32	ZZ	VV	DDU
	65	17	20 700	11 600	2 120	13.6	10 000	7 100	12 000	62/32	ZZ	VV	DDU
	75	20	29 900	17 000	3 050	13.2	9 000	6 300	11 000	63/32	ZZ	VV	DDU
	47	7	4 900	4 100	500	16.7	14 000	7 500	16 000	6807	ZZ	VV	DD
	55	10	6 000	7 250	1 080	15.5	12 000	7 500	15 000	6907	ZZ	VV	DDU
40	62	9	11 700	8 200	1 190	15.6	11 000	—	13 000	16007	—	—	—
	62	14	16 000	10 300	1 630	14.8	11 000	6 700	13 000	6007	ZZ	VV	DDU
	72	17	25 700	15 300	2 620	13.8	9 500	6 300	11 000	6207	ZZ	VV	DDU
	80	21	33 500	19 200	3 400	13.2	8 500	6 000	10 000	6307	ZZ	VV	DDU
	52	7	6 350	5 550	650	17.0	12 000	6 700	14 000	6808	ZZ	VV	DD
45	62	12	13 700	10 000	1 390	15.7	11 000	6 300	13 000	6908	ZZ	VV	DDU
	68	9	12 600	9 650	1 290	16.0	10 000	—	12 000	16008	—	—	—
	68	15	16 800	11 500	1 710	15.3	10 000	6 000	12 000	6008	ZZ	VV	DDU
	80	18	29 100	17 900	2 970	14.0	8 500	5 600	10 000	6208	ZZ	VV	DDU
	90	23	40 500	24 000	4 150	13.2	7 500	5 300	9 000	6308	ZZ	VV	DDU
50	58	7	6 600	6 150	670	17.2	11 000	6 000	13 000	6809	ZZ	VV	DD
	68	12	14 100	10 900	1 440	15.9	9 500	5 600	12 000	6909	ZZ	VV	DDU
	75	10	14 900	11 400	1 520	16.0	9 000	—	11 000	16009	—	—	—
	75	16	20 900	15 200	2 140	15.3	9 000	5 300	11 000	6009	ZZ	VV	DDU
	85	19	31 500	20 400	3 200	14.4	7 500	5 300	9 000	6209	ZZ	VV	DDU
100	25	1.5	53 000	32 000	5 400	13.1	6 700	4 800	8 000	6309	ZZ	VV	DDU

Notes (1) For tolerances for the snap ring grooves and snap ring dimensions, refer to Pages A50 to A53.

(2) When heavy axial loads are applied, increase d_1 and decrease d_2 from the above values.

(3) Ring types N and NR applicable only to open-type bearings. Please consult NSK about the snap ring groove dimensions of sealed or shielded bearings.

Dynamic Equivalent Load

$$P = XF_r + YF_a$$

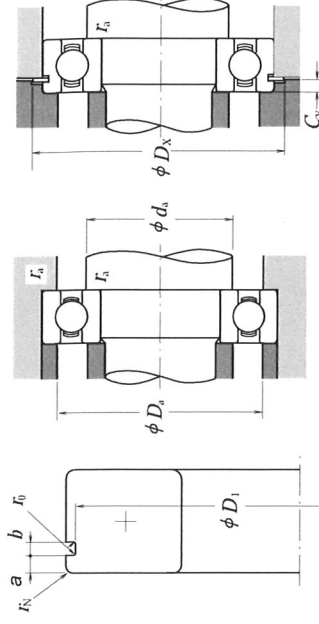
$\frac{f_0 F_a}{C_{0r}}$	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26	1	0	0.56	1.71
1.03	0.28	1	0	0.56	1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34	1	0	0.56	1.31
3.45	0.38	1	0	0.56	1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44	1	0	0.56	1.00

Static Equivalent Load

$$F_r > 0.8, P_0 = 0.6 F_r + 0.5 F_a$$

$$F_r \leq 0.8, P_0 = F_r$$

$$F_r > 0.8, P_0 = F_r$$



With Snap Ring Groove		Snap Ring Groove Dimensions (mm)					Snap Ring (°) Dimensions			Abutment and Fillet Dimensions (mm)					Mass (kg)
		a	b	D ₁	r ₀	r _N	D ₂	f		d _A (°)	r _s	D _s	C _y		
		max.	min.	max.	max.	min.	max.	max.		min.	max.	max.	max.	approx.	
N	NR	1.3	0.95	35.7	0.25	0.3	39.8	0.85	27	27	0.3	40.5	1.8	0.021	
N	NR ⁽⁴⁾	1.7	0.95	40.7	0.25	0.3	44.8	0.85	27	28.5	0.3	45.5	2.3	0.042	
—	—	—	—	—	—	—	—	—	27	—	0.3	—	—	0.059	
N	NR	2.06	1.35	44.6	0.4	0.5	52.7	1.12	29	30	0.6	53.5	2.9	0.079	
N	NR	2.46	1.35	49.73	0.4	0.5	57.9	1.12	30	32	0.7	58.5	3.3	0.121	
N	NR	3.28	1.9	59.61	0.6	0.5	67.7	1.7	31.5	36	1	68.5	4.6	0.235	
N	NR	2.06	1.35	49.73	0.4	0.5	57.9	1.12	32	34	0.6	58.5	2.9	0.096	
N	NR	2.46	1.35	55.6	0.4	0.5	63.7	1.12	33	35	0.7	64.5	3.3	0.175	
N	NR	3.28	1.9	64.82	0.6	0.5	74.6	1.7	34.5	38	1	76	4.6	0.287	
N	NR	1.3	0.95	40.7	0.25	0.3	44.8	0.85	32	32	0.3	45.5	1.8	0.024	
N	NR	1.7	0.95	45.7	0.25	0.3	49.8	0.85	32	34	0.3	50.5	2.3	0.052	
—	—	—	—	—	—	—	—	—	32	—	0.3	—	—	0.087	
N	NR	2.08	1.35	52.6	0.4	0.5	60.7	1.12	35	36.5	0.7	61.5	2.9	0.116	
N	NR	3.28	1.9	59.61	0.6	0.5	67.7	1.7	35	38.5	1	68.5	4.6	0.199	
N	NR	3.28	1.9	68.81	0.6	0.5	78.6	1.7	36.5	42.5	1	80	4.6	0.345	
N	NR	2.08	1.35	55.6	0.4	0.5	63.7	1.12	37	38.5	0.7	64.5	2.9	0.122	
N	NR	3.28	1.9	62.6	0.6	0.5	70.7	1.7	37	40	1	71.5	4.6	0.225	
N	NR	3.28	1.9	71.83	0.6	0.5	81.6	1.7	38.5	44.5	1	83	4.6	0.389	
N	NR	1.3	0.95	45.7	0.25	0.3	49.8	0.85	37	37	0.3	50.5	1.8	0.027	
N	NR	1.7	0.95	53.7	0.25	0.5	57.8	0.85	39	39	0.6	58.5	2.3	0.075	
—	—	—	—	—	—	—	—	—	37	—	0.3	—	—	0.107	
N	NR	2.08	1.9	59.61	0.6	0.5	67.7	1.7	40	41.5	1	68.5	3.4	0.151	
N	NR	3.28	1.9	68.81	0.6	0.5	78.6	1.7	41.5	44.5	0.5	80	4.6	0.284	
N	NR	3.28	1.9	76.81	0.6	0.5	86.6	1.7	43	47	1.5	88	4.6	0.464	
N	NR	1.3	0.95	50.7	0.25	0.3	54.8	0.85	42	42	0.3	55.5	1.8	0.031	
N	NR	1.7	0.95	60.7	0.25	0.5	64.8	0.85	44	46	0.6	65.5	2.3	0.112	
—	—	—	—	—	—	—	—	—	42	—	0.3	—	—	0.13	
N	NR	2.49	1.9	64.82	0.6	0.5	74.6	1.7	45	47.5	0.3	76	3.8	0.19	
N	NR	3.28	1.9	76.81	0.6	0.5	86.6	1.7	46.5	50.5	1	88	4.6	0.366	
N	NR	3.28	2.7	86.79	0.6	0.5	96.5	2.46	48	53	1.5	98	5.4	0.636	
N	NR	1.3	0.95	56.7	0.25	0.3	60.8	0.85	47	47.5	0.3	61.5	1.8	0.038	
N	NR	1.7	0.95	66.7	0.25	0.3 ⁽⁴⁾	70.8	0.85	49	50	0.6	72	2.3	0.126	
—	—	—	—	—	—	—	—	—	49	—	0.6	—	—	0.167	
N	NR	2.49	1.9	71.83	0.6	0.5	81.6	1.7	50	53.5	0.7	83	3.8	0.241	
N	NR	3.28	1.9	81.81	0.6	0.5	91.6	1.7	51.5	55.5	1	93	4.6	0.42	
N	NR	3.28	2.7	96.8	0.6	0.5	106.5	2.46	53	61.5	1.5	108	5.4	0.829	

Remarks 1. Diameter Series 7 (extra thin section bearings) are also available, please contact NSK.

2. When using bearings with rotating outer rings, contact NSK if they are sealed, shielded, or have snap rings.