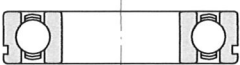
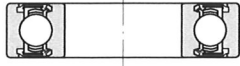
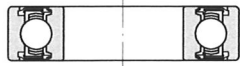
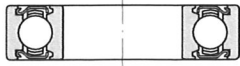
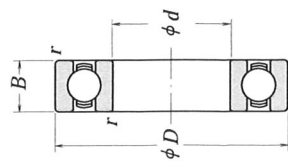


Bore Diameter 25 – 45 mm



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

$$P = XF_r + YF_a$$

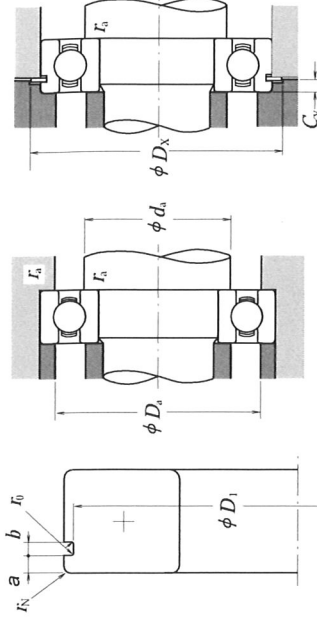
$\frac{f_0 F_a}{C_{0r}}$	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26	1	0	0.56	1.71
1.03	0.28	1	0	0.56	1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34	1	0	0.56	1.31
3.45	0.38	1	0	0.56	1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44	1	0	0.56	1.00

Static Equivalent Load

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

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

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



With Snap Ring Groove		Snap Ring Groove Dimensions (mm)				Snap Ring (°) Dimensions (mm)		Abutment and Fillet Dimensions (mm)				Mass (kg)	
		a	b	D ₁	r ₀	r _N	D ₂	f	d _N (°)	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	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	0.3	45.5	2.3	0.042
N	—	—	—	—	—	—	—	—	27	—	—	—	0.059
N	NR	2.06	1.35	44.6	0.4	0.5	52.7	1.12	29	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	0.6	58.5	3.3	0.125
N	NR	3.28	1.9	59.61	0.6	0.5	67.7	1.7	31.5	1	68.5	4.6	0.235
N	NR	2.06	1.35	49.73	0.4	0.5	57.9	1.12	32	0.6	58.5	2.9	0.096
N	NR	2.46	1.35	55.6	0.4	0.5	63.7	1.12	33.5	1	64.5	3.3	0.175
N	NR	3.28	1.9	64.82	0.6	0.5	74.6	1.7	34.5	1	76	4.6	0.287
N	NR	1.3	0.95	40.7	0.25	0.3	44.8	0.85	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	0.3	50.5	2.3	0.052
N	—	—	—	—	—	—	—	—	32	0.3	—	—	0.087
N	NR	2.08	1.35	52.6	0.4	0.5	60.7	1.12	35	0.6	61.5	2.9	0.116
N	NR	3.28	1.9	59.61	0.6	0.5	67.7	1.7	35	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	1	80	4.6	0.345
N	NR	2.08	1.35	55.6	0.4	0.5	63.7	1.12	37	0.6	64.5	2.9	0.122
N	NR	3.28	1.9	62.6	0.6	0.5	70.7	1.7	37	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	1	83	4.6	0.389
N	NR	1.3	0.95	45.7	0.25	0.3	49.8	0.85	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	0.6	58.5	2.3	0.075
N	—	—	—	—	—	—	—	—	37	0.3	—	—	0.107
N	NR	2.08	1.9	59.61	0.6	0.5	67.7	1.7	40	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	1	80	4.6	0.284
N	NR	3.28	1.9	76.81	0.6	0.5	86.6	1.7	43	1.5	88	4.6	0.464
N	NR	1.3	0.95	50.7	0.25	0.3	54.8	0.85	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	0.6	65.5	2.3	0.112
N	—	—	—	—	—	—	—	—	42	0.3	—	—	0.13
N	NR	2.49	1.9	64.82	0.6	0.5	74.6	1.7	45	1	76	3.8	0.19
N	NR	3.28	1.9	76.81	0.6	0.5	86.6	1.7	46.5	1	88	4.6	0.366
N	NR	3.28	2.7	86.79	0.6	0.5	96.5	2.46	48	1.5	98	5.4	0.636
N	NR	1.3	0.95	56.7	0.25	0.3	60.8	0.85	47	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	0.6	72	2.3	0.126
N	—	—	—	—	—	—	—	—	49	0.6	—	—	0.167
N	NR	2.49	1.9	71.83	0.6	0.5	81.6	1.7	50	1	83	3.8	0.241
N	NR	3.28	1.9	81.81	0.6	0.5	91.6	1.7	51.5	1	93	4.6	0.42
N	NR	3.28	2.7	96.8	0.6	0.5	106.5	2.46	53	1.5	108	5.4	0.829