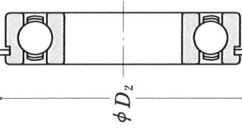
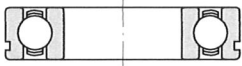
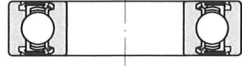
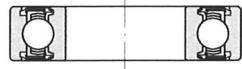
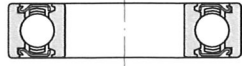
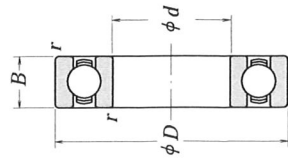
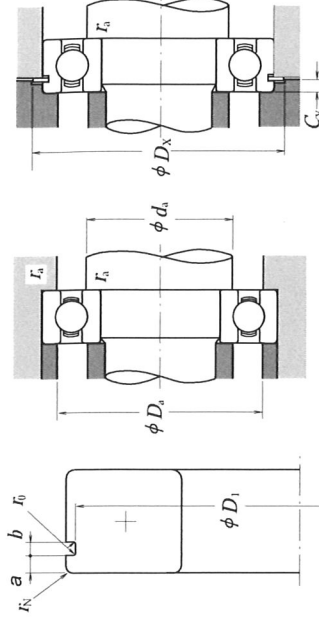


Bore Diameter 25 – 45 mm



Open Type

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

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

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

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

$$F_a > 0.8, P_0 = F_a$$

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

Boundary Dimensions (mm)		Basic Load Ratings (N)		Factor	Limiting Speeds (min ⁻¹)			Bearing Numbers		
d	D	C _r	C _{0r}		Grease Open Z · ZZ V · VV	Oil DU DDU	Open Z	Open ZZ	Sealed DD	Sealed DDU
25	37	4 500	3 150	16.1	18 000	10 000	22 000	6805	VV	DD
	42	7 050	4 550	15.4	16 000	10 000	19 000	6905	VV	DDU
	47	8 850	5 600	15.1	15 000	—	18 000	16005	—	—
	47	10 100	5 850	14.5	15 000	9 500	18 000	6005	VV	DDU
	52	14 000	7 850	13.9	13 000	9 000	15 000	6205	VV	DDU
28	62	20 600	11 200	13.2	11 000	8 000	13 000	6305	VV	DDU
	62	12 500	7 400	14.5	14 000	8 500	16 000	60/28	VV	DDU
	58	16 600	9 500	13.9	12 000	8 000	14 000	62/28	VV	DDU
	68	26 700	14 000	12.4	10 000	7 500	13 000	63/28	VV	DDU
	68	4 700	3 650	16.4	15 000	9 000	18 000	6806	VV	DD
30	47	7 250	5 000	15.8	14 000	8 500	17 000	6906	VV	DDU
	55	13 200	7 350	15.2	13 000	—	15 000	16006	—	—
	55	13 200	8 300	14.7	13 000	8 000	15 000	6006	VV	DDU
	62	19 500	11 300	13.8	11 000	7 500	13 000	6206	VV	DDU
	72	26 700	15 000	13.3	9 500	6 700	12 000	6306	VV	DDU
32	58	15 100	9 150	14.5	12 000	7 500	14 000	60/32	VV	DDU
	65	20 700	11 600	13.6	10 000	7 100	12 000	62/32	VV	DDU
	75	29 900	17 000	13.2	9 000	6 300	11 000	63/32	VV	DDU
	47	4 900	4 100	16.7	14 000	7 500	16 000	6807	VV	DD
	55	10 600	7 250	15.5	12 000	7 500	15 000	6907	VV	DDU
35	62	11 700	8 200	15.6	11 000	—	13 000	16007	—	—
	62	16 000	10 300	14.8	11 000	6 700	13 000	6007	VV	DDU
	72	25 700	15 300	13.8	9 500	6 300	11 000	6207	VV	DDU
	80	33 500	19 200	13.2	8 500	6 000	10 000	6307	VV	DDU
	80	6 350	5 550	17.0	12 000	6 700	14 000	6808	VV	DD
40	52	6 350	5 550	15.7	11 000	6 300	13 000	6908	VV	DDU
	62	13 700	10 000	15.2	10 000	—	12 000	16008	—	—
	68	12 600	9 650	16.0	10 000	6 000	12 000	6008	VV	DDU
	68	16 800	11 500	15.3	10 000	6 000	12 000	6208	VV	DDU
	80	29 100	17 900	14.0	8 500	5 600	10 000	6308	VV	DDU
45	58	24 000	14 500	13.2	7 500	5 300	9 000	6809	VV	DDU
	68	36 000	21 500	12.4	6 500	4 600	8 000	6909	VV	DDU
	75	49 000	29 000	11.9	5 600	3 900	7 000	16009	—	—
	85	67 000	40 500	11.5	4 900	3 300	6 000	6009	VV	DDU
	100	93 000	56 000	11.1	4 300	2 900	5 300	6209	VV	DDU
50	68	10 300	7 250	16.4	15 000	9 000	18 000	6806	VV	DD
	78	15 100	9 150	14.5	12 000	7 500	14 000	60/32	VV	DDU
	88	20 700	11 600	13.6	10 000	7 100	12 000	62/32	VV	DDU
	98	29 900	17 000	13.2	9 000	6 300	11 000	63/32	VV	DDU
	108	39 100	22 400	12.8	8 000	5 600	10 000	64/32	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.

With Snap Ring Groove		Snap Ring Groove Dimensions (mm)				Snap Ring (°) Dimensions (mm)			Abutment and Fillet Dimensions (mm)					Mass (kg)	
N	NR	a	b	D ₁	r ₀	r _N	D ₂		d ₁ (°)	r _s	D _s	C _v	approx		
							max.	min.						max.	min.
N	NR	1.3	0.95	35.7	0.25	0.3	39.8	0.85	27	27	35	0.3	40.5	1.8	0.021
N	NR	1.7	0.95	40.7	0.25	0.3	44.8	0.85	27	27	40	0.3	45.5	2.3	0.042
N	NR	2.06	1.35	44.6	0.4	0.5	52.7	1.12	29	30	43	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	47	1	58.5	3.3	0.129
N	NR	3.28	1.9	59.61	0.6	0.5	67.7	1.7	31.5	36	55	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	48	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	35.5	53	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	38	61.5	1	76	4.6	0.287
N	NR	1.3	0.95	40.7	0.25	0.3	44.8	0.85	32	32	40	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	45	0.3	50.5	2.3	0.052
N	NR	—	—	—	—	—	—	—	32	32	53	0.3	—	—	0.087
N	NR	2.08	1.35	52.6	0.4	0.5	60.7	1.12	35	36.5	50	1	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	57	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	65	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	53	1	64.5	2.9	0.122
N	NR	3.28	1.9	62.6	0.6	0.5	70.7	1.7	37	40	60	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	68	1	83	4.6	0.389
N	NR	1.3	0.95	45.7	0.25	0.3	49.8	0.85	37	37	45	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	51	0.6	58.5	2.3	0.075
—	—	—	—	—	—	—	—	—	37	—	60	0.3	—	—	0.107
N	NR	2.08	1.9	59.61	0.6	0.5	67.7	1.7	40	41.5	57	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	65	1	80	4.6	0.284
N	NR	3.28	1.9	76.81	0.6	0.5	86.6	1.7	43	47	72	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	50	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	58	0.6	65.5	2.3	0.112
—	—	—	—	—	—	—	—	—	42	44	66	0.3	—	—	0.13
N	NR	2.49	1.9	64.82	0.6	0.5	74.6	1.7	45	47.5	63	1	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	73.5	1	88	4.6	0.366
N	NR	3.28	2.7	86.79	0.6	0.5	96.5	2.46	48	53	82	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	56	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	64	0.6	72	2.3	0.126
—	—	—	—	—	—	—	—	—	49	—	71	0.6	—	—	0.167
N	NR	2.49	1.9	71.83	0.6	0.5	81.6	1.7	50	53.5	70	1	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	78.5	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	92	1.5	108	5.4	0.829