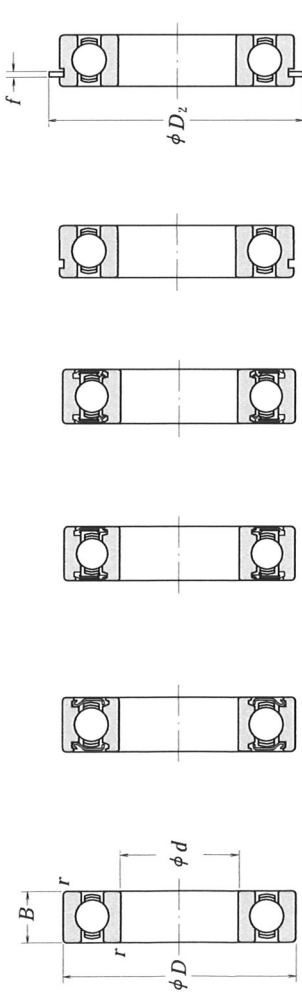


Bore Diameter 25 – 45 mm



Boundary Dimensions (mm)	Basic Load Ratings (kgf)			Factor	Limiting Speeds (min ⁻¹)			Bearing Numbers		
	C _r	C _{0r}	C _{0r}		Grease	Oil	Sealed	Open	Shielded	Sealed
25	37	4 500	3 150	16.1	18 000	10 000	22 000	ZZ	VV	DD
	42	7 050	4 550	15.4	16 000	10 000	19 000	ZZ	VV	DDU
	47	8 850	5 600	15.1	15 000	—	18 000	—	—	—
	47	10 100	5 850	14.5	15 000	9 500	18 000	ZZ	VV	DDU
	52	14 000	7 850	13.9	13 000	9 000	15 000	ZZ	VV	DDU
	62	20 600	11 200	13.2	11 000	8 000	13 000	ZZ	VV	DDU
	52	12 500	7 400	14.5	14 000	8 500	16 000	ZZ	VV	DDU
	58	16 600	9 500	13.9	12 000	8 000	14 000	ZZ	VV	DDU
	68	26 700	14 000	12.4	10 000	7 500	13 000	ZZ	VV	DDU
	42	4 700	3 650	16.4	15 000	9 000	18 000	ZZ	VV	DD
28	47	7 250	5 000	15.8	14 000	8 500	17 000	ZZ	VV	DDU
	55	11 200	7 350	15.2	13 000	—	15 000	—	—	—
	55	13 200	8 300	14.7	13 000	8 000	15 000	ZZ	VV	DDU
	62	19 500	11 300	13.8	11 000	7 500	13 000	ZZ	VV	DDU
	72	26 700	15 000	13.3	9 500	6 700	12 000	ZZ	VV	DDU
	58	15 100	9 150	14.5	12 000	7 500	14 000	ZZ	VV	DDU
	65	20 700	11 600	13.6	10 000	7 100	12 000	ZZ	VV	DDU
	75	29 900	17 000	13.2	9 000	6 300	11 000	ZZ	VV	DDU
	47	4 900	4 100	16.7	14 000	7 500	16 000	ZZ	VV	DD
	55	10 600	7 250	15.5	12 000	7 500	15 000	ZZ	VV	DDU
32	62	11 700	8 200	15.6	11 000	—	13 000	—	—	—
	62	13 200	9 300	14.8	11 000	6 700	13 000	ZZ	VV	DDU
	72	19 500	11 300	13.8	9 500	6 300	11 000	ZZ	VV	DDU
	80	26 700	15 000	13.2	8 500	6 000	10 000	ZZ	VV	DDU
	58	15 100	9 150	14.5	12 000	7 500	14 000	ZZ	VV	DDU
	65	20 700	11 600	13.6	10 000	7 100	12 000	ZZ	VV	DDU
	75	29 900	17 000	13.2	9 000	6 300	11 000	ZZ	VV	DDU
	47	4 900	4 100	16.7	14 000	7 500	16 000	ZZ	VV	DD
	55	10 600	7 250	15.5	12 000	7 500	15 000	ZZ	VV	DDU
	62	11 700	8 200	15.6	11 000	—	13 000	—	—	—
35	62	13 200	9 300	14.8	11 000	6 700	13 000	ZZ	VV	DDU
	72	19 500	11 300	13.8	9 500	6 300	11 000	ZZ	VV	DDU
	80	26 700	15 000	13.2	8 500	6 000	10 000	ZZ	VV	DDU
	52	6 350	5 550	17.0	12 000	6 700	14 000	ZZ	VV	DD
	62	13 700	10 000	15.7	11 000	6 300	13 000	ZZ	VV	DDU
	68	19 850	9 650	16.0	10 000	—	12 000	—	—	—
	68	16 800	11 500	15.3	10 000	6 000	12 000	ZZ	VV	DDU
	80	29 700	17 900	14.0	8 500	5 600	10 000	ZZ	VV	DDU
	90	40 500	24 000	13.2	7 500	5 300	9 000	ZZ	VV	DDU
	58	6 600	6 150	17.2	11 000	6 000	13 000	ZZ	VV	DD
40	68	14 100	10 900	15.9	9 500	5 600	12 000	ZZ	VV	DDU
	75	14 900	11 400	15.9	9 000	—	11 000	—	—	—
	68	16 800	11 500	15.3	10 000	6 000	12 000	ZZ	VV	DDU
	80	29 700	17 900	14.0	8 500	5 600	10 000	ZZ	VV	DDU
	90	40 500	24 000	13.2	7 500	5 300	9 000	ZZ	VV	DDU
	58	6 600	6 150	17.2	11 000	6 000	13 000	ZZ	VV	DD
	68	14 100	10 900	15.9	9 500	5 600	12 000	ZZ	VV	DDU
	75	14 900	11 400	15.9	9 000	—	11 000	—	—	—
	68	16 800	11 500	15.3	10 000	6 000	12 000	ZZ	VV	DDU
	80	29 700	17 900	14.0	8 500	5 600	10 000	ZZ	VV	DDU
45	90	31 500	20 400	14.4	7 500	5 300	9 000	ZZ	VV	DDU
	100	43 000	27 000	13.1	6 700	4 800	8 000	ZZ	VV	DDU
	68	16 800	11 500	15.3	10 000	6 000	12 000	ZZ	VV	DDU
	80	29 700	17 900	14.0	8 500	5 600	10 000	ZZ	VV	DDU
	90	40 500	24 000	13.2	7 500	5 300	9 000	ZZ	VV	DDU
	58	6 600	6 150	17.2	11 000	6 000	13 000	ZZ	VV	DD
	68	14 100	10 900	15.9	9 500	5 600	12 000	ZZ	VV	DDU
	75	14 900	11 400	15.9	9 000	—	11 000	—	—	—
	68	16 800	11 500	15.3	10 000	6 000	12 000	ZZ	VV	DDU
	80	29 700	17 900	14.0	8 500	5 600	10 000	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_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

$P = X F_r + Y F_a$

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

Static Equivalent Load

$F_0 > 0.8, P_0 = 0.6 F_r + 0.5 F_a$
 $F_0 \leq 0.8, P_0 = F_r$

$F_0 > 0.8, P_0 = 0.6 F_r + 0.5 F_a$
 $F_0 \leq 0.8, P_0 = F_r$

With Snap Ring Groove	Snap Ring Groove Dimensions (mm)			Snap Ring Dimensions (mm)			Abutment and Fillet Dimensions (mm)			Mass (kg) approx.							
	a max.	b min.	D ₁ max.	D ₂ max.	f max.	d ₁ (¹) min.	d ₂ (¹) max.	r _s max.	D _s min.		C _y max.						
N	1.3	0.95	35.7	0.3	0.25	0.3	39.8	0.85	27	27	27	28.5	45	0.3	40.5	1.8	0.021
N ⁽²⁾	1.7	0.95	40.7	0.3	0.25	0.3	44.8	0.85	27	27	27	28.5	45	0.3	45.5	2.3	0.042
N	2.06	1.35	44.6	0.4	0.5	0.5	52.7	1.12	29	30	30	32	43	0.6	53.5	2.9	0.059
N	2.46	1.35	49.73	0.4	0.5	0.5	57.9	1.12	30	31	31	33	47	1.12	58.5	3.3	0.079
N	3.28	1.9	59.61	0.6	0.5	0.5	67.7	1.7	31	32	32	35	55.5	1	68.5	4.6	0.129
N	2.06	1.35	49.73	0.4	0.5	0.5	57.9	1.12	32	33	33	35	48	0.6	58.5	2.9	0.235
N	2.46	1.35	55.6	0.4	0.5	0.5	63.7	1.12	32	33	33	35	53	1	64.5	3.3	0.296
N	3.28	1.9	64.82	0.6	0.5	0.5	74.6	1.7	34	35	35	38	61.5	1	76	4.6	0.427
N	1.3	0.95	40.7	0.25	0.3	0.3	44.8	0.85	32	32	32	34	40	0.3	45.5	1.8	0.024
N	1.7	0.95	45.7	0.25	0.3	0.3	49.8	0.85	32	32	32	34	45	0.3	50.5	2.3	0.052
N	2.08	1.35	52.6	0.4	0.5	0.5	60.7	1.12	32	32	32	34	53	0.3	—	—	0.087
N	3.28	1.9	59.61	0.6	0.5	0.5	67.7	1.7	35	35	35	38	61.5	1	61.5	2.9	0.116
N	3.28	1.9	68.81	0.6	0.5	0.5	78.6	1.7	36	36	36	40	65.5	1	80	4.6	0.199
N	2.08	1.35	55.6	0.4	0.5	0.5	63.7	1.12	37	37	37	40	64.5	1	80	4.6	0.345
N	3.28	1.9	62.6	0.6	0.5	0.5	70.7	1.7	37	37	37	40	60	1	83	4.6	0.422
N	3.28	1.9	71.83	0.6	0.5	0.5	81.6	1.7	38	38	38	42	68.5	1	83	4.6	0.525
N	1.3	0.95	45.7	0.25	0.3	0.3	49.8	0.85	37	37	37	39	45	0.3	50.5	1.8	0.389
N	1.7	0.95	53.7	0.25	0.3	0.3	57.8	0.85	39	39	39	42	51	0.6	58.5	2.3	0.527
N	2.08	1.9	59.61	0.6	0.5	0.5	67.7	1.7	40	41	40	41	57	1	68.5	3.4	0.707
N	3.28	1.9	68.81	0.6	0.5	0.5	78.6	1.7	41	41	41	45	65.5	1	80	4.6	1.151
N	3.28	1.9	76.81	0.6	0.5	0.5	86.6	1.7	43	47	43	47	72	1.5	88	4.6	1.664
N	1.3	0.95	50.7	0.25	0.3	0.3	54.8	0.85	42	42	42	44	50	0.3	55.5	1.8	0.401
N	1.7	0.95	60.7	0.25	0.3	0.3	64.8	0.85	44	46	44	46	58	0.6	65.5	2.3	0.5