

Bore Diameter 10 – 22 mm

Dynamic Equivalent Load

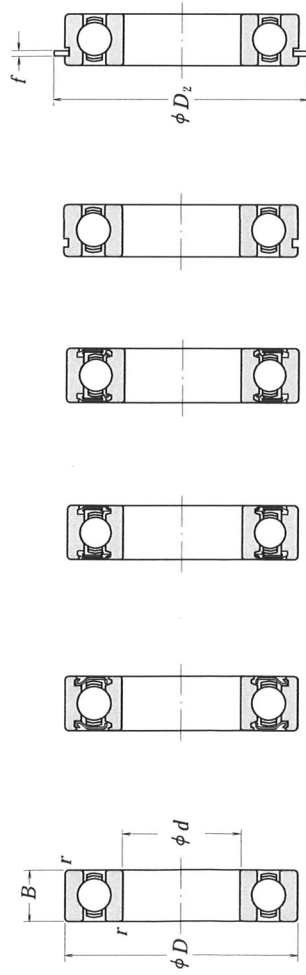
$$P = X F_r + Y F_a$$

$\frac{f_0 F_a}{C_{0r}}$	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

$$\frac{F_a}{F_r} > 0.8, P_0 = 0.6 F_r + 0.5 F_a$$

$$\frac{F_a}{F_r} \leq 0.8, P_0 = F_r$$



d	Boundary Dimensions (mm)			Basic Load Ratings (N)			Factor	Limiting Speeds (min ⁻¹)				Bearing Numbers		
	D	B	r min.	C _r	C _{0r}	C _r		Grease Open Z, VV	Oil DDU, DDU	Open Z	Open	Open	Shielded	Sealed
10	19	5	0.3	1 720	840	175	14.8	34 000	24 000	40 000	6800	ZZ	VV	DD
	22	6	0.3	2 700	1 270	275	14.0	32 000	22 000	38 000	6900	ZZ	VV	DD
	26	8	0.3	4 550	1 970	465	12.4	30 000	22 000	36 000	6000	ZZ	VV	DDU
	30	9	0.6	5 100	2 390	520	13.2	24 000	18 000	30 000	6200	ZZ	VV	DDU
	35	11	0.6	8 100	3 450	825	11.2	22 000	17 000	26 000	6300	ZZ	VV	DDU
12	21	5	0.3	1 920	1 040	195	15.3	32 000	20 000	38 000	6801	ZZ	VV	DD
	24	6	0.3	2 890	1 460	295	14.5	30 000	20 000	36 000	6901	ZZ	VV	DD
	28	7	0.3	5 100	2 370	520	13.0	28 000	—	32 000	16001	—	—	—
	28	8	0.3	5 100	2 370	520	13.0	28 000	18 000	32 000	6001	ZZ	VV	DDU
	32	10	0.6	6 800	3 050	695	12.3	22 000	17 000	28 000	6201	ZZ	VV	DDU
15	37	12	1	9 700	4 200	990	11.1	20 000	16 000	24 000	6301	ZZ	VV	DDU
	24	5	0.3	2 070	1 260	212	15.8	28 000	17 000	34 000	6802	ZZ	VV	DD
	28	7	0.3	4 350	2 260	430	14.3	26 000	17 000	30 000	16002	—	—	—
	32	8	0.3	5 600	2 830	570	13.9	24 000	—	28 000	—	—	—	—
	32	9	0.3	5 600	2 830	570	13.9	24 000	15 000	28 000	6002	ZZ	VV	DDU
17	35	11	0.6	7 650	3 750	780	13.2	20 000	14 000	24 000	6202	ZZ	VV	DDU
	42	13	1	11 400	5 450	1 170	12.3	17 000	13 000	20 000	6302	ZZ	VV	DDU
	26	5	0.3	2 630	1 570	268	15.7	26 000	15 000	30 000	6803	ZZ	VV	DD
	30	7	0.3	4 600	2 550	470	14.7	24 000	15 000	28 000	6903	ZZ	VV	DDU
	35	8	0.3	6 000	3 250	610	14.4	22 000	—	26 000	16003	—	—	—
20	35	10	0.3	6 000	3 250	610	14.4	22 000	13 000	26 000	6003	ZZ	VV	DDU
	40	12	0.6	9 550	4 800	975	13.2	17 000	12 000	20 000	6203	ZZ	VV	DDU
	47	14	1	13 600	6 650	1 390	12.4	15 000	11 000	18 000	6303	ZZ	VV	DDU
	32	7	0.3	4 000	2 470	410	15.5	22 000	13 000	26 000	6804	ZZ	VV	DD
	37	9	0.3	6 400	3 700	650	14.7	19 000	12 000	22 000	6904	ZZ	VV	DDU
22	42	8	0.3	7 900	4 450	810	14.5	18 000	—	20 000	16004	—	—	—
	42	12	0.6	9 400	5 000	955	13.8	18 000	11 000	20 000	6004	ZZ	VV	DDU
	47	14	1	12 800	6 600	1 300	13.1	15 000	11 000	18 000	6204	ZZ	VV	DDU
	52	15	1.1	15 900	7 900	1 620	12.4	14 000	10 000	17 000	6304	ZZ	VV	DDU
	44	12	0.6	9 400	5 050	960	14.0	17 000	11 000	20 000	60722	ZZ	VV	DDU
22	50	14	1	12 900	6 800	1 320	13.5	14 000	9 500	16 000	62722	ZZ	VV	DDU
	56	16	1.1	18 400	9 250	1 870	12.4	13 000	9 500	16 000	63722	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_f and decrease D_a 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.

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.