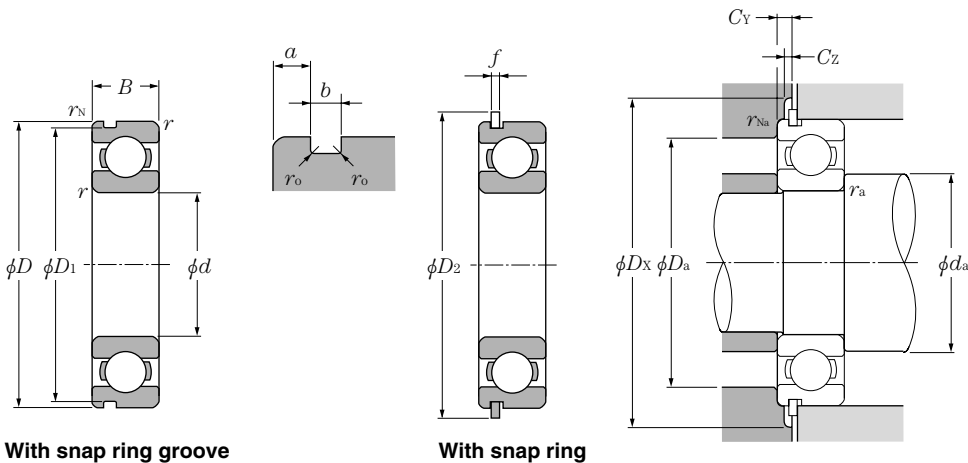


d 90 ~ 120mm

d	Boundary dimensions				Basic load ratings				Factor f_0	Limiting speeds			Bearing numbers			
	mm				dynamic		static			grease open type	min ⁻¹		open type	non- contact shielded type	low- torque sealed type	contact sealed type
	D	B	$r_{s \min}^{1)}$	$r_{NS \min}$	C_r	C_{or}	C_r	C_{or}			oil open type	Z				
90	115	13	1	0.5	19.0	19.7	1 940	2 010	16.1	5 400	6 300	3 000	6818	ZZ	LLB	LLU
	125	18	1.1	0.5	33.0	31.5	3 350	3 200	16.5	5 100	6 000	2 900	6918	ZZ	LLB	LLU
	140	16	1	—	33.5	33.5	3 400	3 400	16.5	4 700	5 600	—	16018	—	—	—
	140	24	1.5	0.5	58.0	49.5	5 950	5 050	15.6	4 700	5 600	2 800	6018	ZZ	LLB	LLU
	160	30	2	0.5	96.0	71.5	9 800	7 300	14.5	4 000	4 700	2 600	6218	ZZ	LLB	LLU
	190	43	3	0.5	143	107	14 500	10 900	13.3	3 600	4 200	2 400	6318	ZZ	LLB	LLU
95	120	13	1	0.5	19.3	20.5	1 970	2 090	16.1	5 000	5 900	2 800	6819	ZZ	LLB	LLU
	130	18	1.1	0.5	33.5	33.5	3 450	3 400	16.6	4 800	5 700	2 800	6919	ZZ	LLB	LLU
	145	16	1	—	34.5	35.0	3 500	3 550	16.5	4 500	5 300	—	16019	—	—	—
	145	24	1.5	0.5	60.5	54.0	6 150	5 500	15.8	4 500	5 300	2 600	6019	ZZ	LLB	LLU
	170	32	2.1	0.5	109	82.0	11 100	8 350	14.4	3 700	4 400	2 500	6219	ZZ	LLB	LLU
	200	45	3	0.5	153	119	15 600	12 100	13.3	3 300	3 900	2 300	6319	ZZ	—	LLU
100	125	13	1	0.5	19.6	21.2	2 000	2 160	16.0	4 800	5 600	2 700	6820	ZZ	LLB	LLU
	140	20	1.1	0.5	41.0	39.5	4 200	4 050	16.4	4 500	5 300	2 600	6920	ZZ	LLB	LLU
	150	16	1	—	35.0	36.5	3 600	3 750	16.4	4 200	5 000	—	16020	—	—	—
	150	24	1.5	0.5	60.0	54.0	6 150	5 500	15.9	4 200	5 000	2 600	6020	ZZ	LLB	LLU
	180	34	2.1	0.5	122	93.0	12 500	9 450	14.4	3 500	4 200	2 300	6220	ZZ	LLB	LLU
	215	47	3	—	173	141	17 600	14 400	13.2	3 200	3 700	2 200	6320	ZZ	—	LLU
105	130	13	1	0.5	19.8	22.0	2 020	2 240	15.9	4 600	5 400	—	6821	—	—	—
	145	20	1.1	0.5	42.5	42.0	4 300	4 300	16.5	4 300	5 100	2 500	6921	ZZ	LLB	LLU
	160	18	1	—	52.0	50.5	5 300	5 150	16.3	4 000	4 700	—	16021	—	—	—
	160	26	2	0.5	72.5	65.5	7 400	6 700	15.8	4 000	4 700	2 400	6021	ZZ	LLB	LLU
	190	36	2.1	0.5	133	105	13 600	10 700	14.4	3 400	4 000	2 300	6221	ZZ	—	LLU
	225	49	3	—	184	153	18 700	15 700	13.2	3 000	3 600	2 100	6321	ZZ	—	LLU
110	140	16	1	0.5	24.9	28.2	2 540	2 880	16.0	4 300	5 100	—	6822	—	—	—
	150	20	1.1	0.5	43.5	44.5	4 450	4 550	16.6	4 100	4 800	2 400	6922	ZZ	LLB	LLU
	170	19	1	—	57.5	56.5	5 850	5 800	16.3	3 800	4 500	—	16022	—	—	—
	170	28	2	0.5	82.0	73.0	8 350	7 450	15.6	3 800	4 500	2 300	6022	ZZ	LLB	LLU
	200	38	2.1	0.5	144	117	14 700	11 900	14.3	3 200	3 800	2 200	6222	ZZ	—	LLU
	240	50	3	—	205	179	20 900	18 300	13.1	2 900	3 400	1 900	6322	ZZ	—	LLU
120	150	16	1	0.5	28.9	33.0	2 950	3 350	16.0	4 000	4 700	—	6824	—	—	—
	165	22	1.1	0.5	53.0	54.0	5 400	5 500	16.5	3 800	4 400	—	6924	—	—	—
	180	19	1	—	63.0	63.5	6 450	6 450	16.4	3 500	4 100	—	16024	—	—	—
	180	28	2	0.5	85.0	79.5	8 650	8 100	15.9	3 500	4 100	2 100	6024	ZZ	LLB	LLU

1) Smallest allowable dimension for chamfer dimension r .



Dynamic equivalent radial load

$$P_r = X F_r + Y F_a$$

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

Static equivalent radial load

$$P_{or} = 0.6 F_r + 0.5 F_a$$

When $P_{or} < F_r$ use $P_{or} = F_r$

Bearing numbers		Snap ring groove dimensions mm				Snap ring dimensions mm		Abutment and fillet dimensions mm								Mass ⁴⁾ kg
snap ²⁾ ring groove	snap ²⁾ ring	D_1 max	a max	b min	r_o max	D_2 max	f max	d_a min	d_a max ³⁾	D_a max	D_x (approx.)	C_Y max	C_Z min	r_{as} max	r_{Ns} max	(approx.)
N	NR	112.6	2.1	1.3	0.4	120.7	1.12	95	96	110	122	2.9	1.2	1	0.5	0.285
N	NR	122.6	3.3	1.3	0.4	130.7	1.12	96.5	99	118.5	132	4.1	1.2	1	0.5	0.554
—	—	—	—	—	—	—	—	95	—	135	—	—	—	1	—	0.848
N	NR	135.23	3.71	3.1	0.6	149.7	2.82	98	102	132	152	6.1	2.9	1.5	0.5	1.02
N	NR	155.22	4.9	3.1	0.6	169.7	2.82	99	109	151	172	7.3	2.9	2	0.5	2.15
N	NR	183.64	5.69	3.5	0.6	202.9	3.1	103	118	177	205	8.4	3.1	2.5	0.5	4.91
N	NR	117.6	2.1	1.3	0.4	125.7	1.12	100	101	115	127	2.9	1.2	1	0.5	0.3
N	NR	127.6	3.3	1.3	0.4	135.7	1.12	101.5	104	123.5	137	4.1	1.2	1	0.5	0.579
—	—	—	—	—	—	—	—	100	—	140	—	—	—	1	—	0.885
N	NR	140.23	3.71	3.1	0.6	154.7	2.82	103	109	137	157	6.1	2.9	1.5	0.5	1.08
N	NR	163.65	5.69	3.5	0.6	182.9	3.1	106	116	159	185	8.4	3.1	2	0.5	2.62
N	NR	193.65	5.69	3.5	0.6	212.9	3.1	108	125	187	215	8.4	3.1	2.5	0.5	5.67
N	NR	122.6	2.1	1.3	0.4	130.7	1.12	105	106	120	132	2.9	1.2	1	0.5	0.313
N	NR	137.6	3.3	1.9	0.6	145.7	1.7	106.5	110	133.5	147	4.7	1.7	1	0.5	0.785
—	—	—	—	—	—	—	—	105	—	145	—	—	—	1	—	0.91
N	NR	145.24	3.71	3.1	0.6	159.7	2.82	108	110	142	162	6.1	2.9	1.5	0.5	1.15
N	NR	173.66	5.69	3.5	0.6	192.9	3.1	111	122	169	195	8.4	3.1	2	0.5	3.14
N	NR	208.6	5.69	3.5	1	227.8	3.1	113	133	202	230	8.4	3.1	2.5	0.5	7
N	NR	127.6	2.1	1.3	0.4	135.7	1.12	110	—	125	137	2.9	1.2	1	0.5	0.33
N	NR	142.6	3.3	1.9	0.6	150.7	1.7	111.5	115	138.5	152	4.7	1.7	1	0.5	0.816
—	—	—	—	—	—	—	—	110	—	155	—	—	—	1	—	1.2
N	NR	155.22	3.71	3.1	0.6	169.7	2.82	114	119	151	172	6.1	2.9	2	0.5	1.59
N	NR	183.64	5.69	3.5	0.6	202.9	3.1	116	125	179	205	8.4	3.1	2	0.5	3.7
N	NR	217.0	6.5	4.5	1	237	3.5	118	134	212	239	9.6	3.5	2.5	0.5	8.05
N	NR	137.6	2.5	1.9	0.6	145.7	1.7	115	—	135	147	3.9	1.7	1	0.5	0.515
N	NR	147.6	3.3	1.9	0.6	155.7	1.7	116.5	120	143.5	157	4.7	1.7	1	0.5	0.849
—	—	—	—	—	—	—	—	115	—	165	—	—	—	1	—	1.46
N	NR	163.65	3.71	3.5	0.6	182.9	3.1	119	126	161	185	6.4	3.1	2	0.5	1.96
N	NR	193.65	5.69	3.5	0.6	212.9	3.1	121	132	189	215	8.4	3.1	2	0.5	4.36
N	NR	232.0	6.5	4.5	1	252	3.5	123	149	227	254	9.6	3.5	2.5	0.5	9.54
N	NR	147.6	2.5	1.9	0.6	155.7	1.7	125	—	145	157	3.9	1.7	1	0.5	0.555
N	NR	161.8	3.7	1.9	0.6	171.5	1.7	126.5	—	158.5	173	5.1	1.7	1	0.5	1.15
—	—	—	—	—	—	—	—	125	—	175	—	—	—	1	—	1.56
N	NR	173.66	3.71	3.5	0.6	192.9	3.1	129	136	171	195	6.4	3.1	2	0.5	2.07

2) Sealed and shielded bearings are also available.

3) This dimension applies to sealed and shielded bearings.

4) Does not include bearings with snap rings.