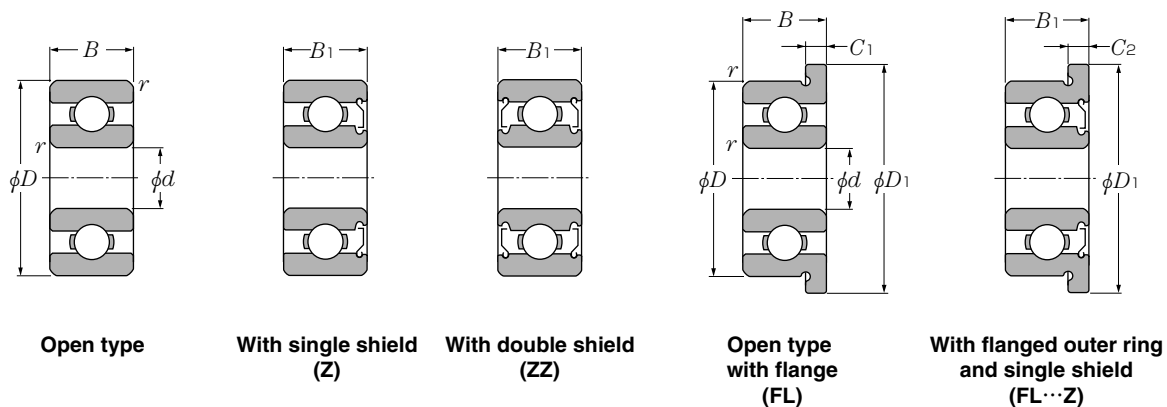


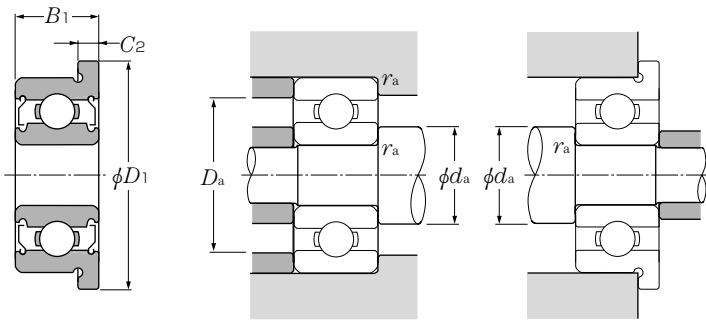
Inch series



d 1.984 ~

d	Boundary dimensions							Basic load ratings				Factor f_o	Limiting speeds	
	D	B	B ₁	mm		$r_{s \min}^{1)}$	dynamic	static	dynamic	static	grease		oil	
	D	B	B ₁	D ₁	C ₁		C ₂	N	C _{or}	kgf		C _{or}		
1.984	6.35	2.38	3.571	7.52	0.58	0.79	0.08	279	89.0	28	9	12.8	67 000	79 000
2.380	4.762	1.588	2.38	5.94	0.46	0.79	0.08	124	42.0	13	4.5	14.8	73 000	85 000
	7.938	2.779	3.571	9.12	0.58	0.79	0.13	430	152	44	16	13.2	56 000	66 000
3.175	6.35	2.38	2.779	7.52	0.58	0.79	0.08	284	96.0	29	10	13.7	59 000	70 000
	7.938	2.779	3.571	9.12	0.58	0.79	0.08	560	180	57	18	11.9	54 000	63 000
	9.525	2.779	3.571	10.72	0.58	0.79	0.13	640	224	65	23	12.7	49 000	58 000
	9.525	3.967	3.967	11.18	0.76	0.76	0.3	640	224	65	23	12.7	49 000	58 000
	12.7	4.366	4.366	—	—	—	0.3	1 150	395	117	40	11.7	43 000	51 000
3.967	7.938	2.779	3.175	9.12	0.58	0.91	0.08	335	133	34	14	14.8	51 000	60 000
4.762	7.938	2.779	3.175	9.12	0.58	0.91	0.08	395	143	40	15	14.2	49 000	58 000
	9.525	3.175	3.175	10.72	0.58	0.79	0.08	710	268	72	27	13.3	46 000	55 000
	12.7	3.967	—	—	—	—	0.3	1 310	490	134	50	12.4	41 000	48 000
	12.7	4.978	4.978	14.35	1.07	1.07	0.3	1 310	490	134	50	12.4	41 000	48 000
6.350	9.525	3.175	3.175	10.72	0.58	0.91	0.08	210	94.0	21	9.5	16.4	43 000	51 000
	12.7	3.175	4.762	13.89	0.58	1.14	0.13	830	370	84	38	14.7	39 000	46 000
	15.875	4.978	4.978	17.53	1.07	1.07	0.3	1 480	615	151	63	13.6	36 000	43 000
	19.05	—	7.142	—	—	—	0.41	2 340	885	238	90	12.1	34 000	40 000
9.525	22.225	—	7.142	24.61	—	1.57	0.41	3 300	1 400	340	142	12.7	31 000	37 000

1) Smallest allowable dimension for chamfer dimension r .



With flanged outer ring and double shield (FL...ZZ)

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						Abutment and fillet dimensions				Mass (approx.)	
open	with single shield	with double shield	unsealed type with flange	with flanged OR and single shield	with flanged OR and double shield	mm				g	
						d_a	D_a	r_{as}			
						min	max ²⁾	max	max	open	with flange
R1-4	RA1-4ZA	ZZA	FLR1-4	FLRA1-4ZA	ZZA	2.8	3.3	5.5	0.08	0.35	0.41
R133	RA133ZA	ZZA	FLR133	FLRA133ZA	ZZA	2.9	3.1	4	0.08	0.12	0.16
R1-5	RA1-5ZA	ZZA	FLR1-5	FLRA1-5ZA	ZZA	3.2	4.3	7.1	0.1	0.69	0.76
R144	RA144ZA	ZZA	FLR144	FLRA144ZA	ZZA	3.9	4.0	5.5	0.08	0.27	0.33
R2-5	RA2-5Z	ZZ	FLR2-5	FLRA2-5Z	ZZ	4	4.4	7	0.08	0.61	0.68
R2-6	RA2-6ZA	ZZA	FLR2-6	FLRA2-6ZA	ZZA	4	5.2	8.7	0.1	0.88	0.96
R2	RA2ZA	ZZA	FLR2	FLRA2ZA	ZZA	4.8	5.2	7.8	0.3	1.3	1.5
RA2	RA2Z	ZZ	—	—	—	4.8	5.4	11	0.3	2.5	—
R155	RA155ZA	ZZA	FLR155	FLRA155ZA	ZZA	4.8	5.3	7	0.08	0.54	0.61
R156	RA156Z	ZZ	FLR156	FLRA156Z	ZZ	5.5	5.6	7	0.08	0.44	0.51
R166	R166Z	ZZ	FLR166	FLRA166Z	ZZ	5.6	5.9	8.7	0.08	0.8	0.89
R3	—	—	—	—	—	6.4	7.2	11	0.3	2.2	—
RA3	RA3Z	ZZ	FLRA3	FLRA3Z	ZZ	6.0	6.4	11	0.3	2.4	2.7
R168A	R168AZ	AZZ	—	FLRA168AZ	ZZ	7.1	7.3	8.7	0.08	0.6	0.69
R188	RA188ZA	ZZA	FLR188	FLRA188ZA	ZZA	7.2	8.2	11.8	0.1	1.6	1.7
R4	R4Z	ZZ	FLR4	FLR4Z	ZZ	8	8.6	14.2	0.3	4.4	4.8
—	RA4Z	ZZ	—	—	—	8.4	9.5	17	0.4	11 ³⁾	—
—	R6Z	ZZ	—	FLR6Z	ZZ	11.5	11.9	20.2	0.4	14 ³⁾	15 ³⁾

2) This dimension applies to sealed and shielded bearings. 3) Values for double shielded bearings shown.