

QCB Deep groove ball bearings



BEARING ACCURACY

There are stipulations to the roller bearing major size tolerance, admittance value, rotating precision in the National standard of GB/T307.1. The following is a comparison table between these tolerance and ISO. JIS standards

Standard allowable tolerance grades

GB/T307.1	P0		P6		P5		P4		P2							
ISO 492	Normal class		Class 6		Class 5		Class 4		Class 2							
JIS B 1514	JIS 0		JIS 6		JIS 5		JIS 4		JIS 2							
AFBMA STD.20	ABEC-1		ABEC-3		ABEC-5		ABEC-7		ABEC-9							
Inner ring tolerances (finished product)											Tolerance unit: μm					
Tolerances Class	d mm		Δdmp		Δds		Vdsp			Vdmp	Kia	SD	Sia	ΔBS		VBS
							Diameter series									
	Exceed	to	max	min	max	min	9	0、1	2、3、4					max	min	max
P0 (ABEC-1)	0.6	2.5	0	-8	/	/	10	8	6	6	10	/	/	0	-40	12
	2.5	10		-8	/	/	10	8	6	6	10	/	/		-120	15
	10	18		-8	/	/	10	8	6	6	10	/	/		-120	20
	18	30		-10	/	/	13	10	8	8	13	/	/		-120	20
	30	50		-12	/	/	15	12	9	9	15	/	/		-120	20
	50	80		-15	/	/	19	19	11	11	20	/	/		-150	25
P6 (ABEC-3)	0.6	2.5	0	-7	/	/	9	7	5	5	5	/	/	0	-40	12
	2.5	10		-7	/	/	9	7	5	5	6	/	/		-120	15
	10	18		-7	/	/	9	7	5	5	7	/	/		-120	20
	18	30		-8	/	/	10	8	6	6	8	/	/		-120	20
	30	50		-10	/	/	13	10	8	8	10	/	/		-120	20
	50	80		-12	/	/	15	15	9	9	10	/	/		-150	25
P5 (ABEC-5)	0.6	2.5	0	-5	/	/	5	4	4	3	4	7	7	0	-40	5
	2.5	10		-5	/	/	5	4	4	3	4	7	7		-40	5
	10	18		-5	/	/	5	4	4	3	4	7	7		-80	5
	18	30		-6	/	/	6	5	5	3	4	8	8		-120	5
	30	50		-8	/	/	8	6	6	4	5	8	8		-120	5
	50	80		-9	/	/	9	7	7	5	5	8	8		-150	6
P4 (ABEC-7)	0.6	2.5	0	-4	0	-4	4	3	3	2	2.5	3	3	0	-40	2.5
	2.5	10		-4		4	3	3	2	2.5	3	3	-40		2.5	
	10	18		-4		4	3	3	2	2.5	3	3	-80		2.5	
	18	30		-5		5	4	4	2.5	3	4	4	-120		2.5	
	30	50		-6		6	5	5	3	4	4	4	-120		3	
	50	80		-7		7	5	5	3.5	4	5	5	-150		4	

Outer ring tolerances (finished product)

Tolerance unit: μm

Tolerances Class	D mm		ΔD_{mp}		ΔD_s		VDsp				VDmp	Kea	SD	Sea	ΔCS		VCS
							Open		Close								
							9	0, 1	2, 3, 4	0, 1, 2, 3, 4							
	Exceed	to	max	min	max	min	max								max	min	max
P0 (ABEC-1)	2.5	6	0	-8	/	/	10	8	6	10	6	15	/	/	Same as ΔB_s and VBs of the inner ring of the same bearing		
	6	18		-8	/	/	10	8	6	10	6	15	/	/			
	18	30		-9	/	/	12	9	7	12	7	15	/	/			
	30	50		-11	/	/	14	11	8	16	8	20	/	/			
	50	80		-13	/	/	16	13	10	20	10	25	/	/			
	80	120		-15	/	/	19	19	11	26	11	35	/	/			
P6 (ABEC-3)	2.5	6	0	-7	/	/	9	7	5	9	5	8	/	/	Same as ΔB_s and VBs of the inner ring of the same bearing		
	6	18		-7	/	/	9	7	5	9	5	8	/	/			
	18	30		-8	/	/	10	8	6	10	6	9	/	/			
	30	50		-9	/	/	11	9	7	13	7	10	/	/			
	50	80		-11	/	/	14	11	8	16	8	13	/	/			
	80	120		-13	/	/	16	16	10	20	10	18	/	/			
P5 (ABEC-5)	2.5	6	0	-5	/	/	5	4	4	4	3	5	4	8	Same as ΔB_s of the inner ring of the same bearing		5
	6	18		-5	/	/	5	4	4	4	3	5	4	8			5
	18	30		-6	/	/	6	5	5	5	3	6	4	8			5
	30	50		-7	/	/	7	5	5	5	4	7	4	8			5
	50	80		-9	/	/	9	7	7	7	5	8	4	10			6
	80	120		-10	/	/	10	8	8	8	5	10	4.5	11			8
P4 (ABEC-7)	2.5	6	0	-4	0	-4	4	3	3	3	2	3	2	5	Same as ΔB_s of the inner ring of the same bearing		2.5
	6	18		-4		4	3	3	3	2	3	2	5	2.5			
	18	30		-5		5	4	4	4	2.5	4	2	5	2.5			
	30	50		-6		6	5	5	5	3	5	2	5	2.5			
	50	80		-7		7	5	5	5	3.5	5	2	5	3			
	80	120		-8		8	6	6	6	4	6	2.5	6	4			

CLEARANCE

Radial internal clearance of small ($D \geq 9\text{mm}$, $d < 10\text{mm}$) and miniature ($D < 9\text{mm}$) bearing

Clearance mark	MC1		MC2		MC3		MC4		MC5		MC6	
	min	max	min	max	min	max	min	max	min	max	min	max
	0	5	3	8	5	10	8	13	13	20	20	28

Note: Standard clearance is MC3 unit: μm

Radial clearance of motor bearing

unit: μm

Inner diameter d (mm)		Clearance CM	
over	To	Min.	Max.
2.5	10	3	10
10	18	4	11
18	30	5	12
30	50	9	17
50	80	12	22

Radial clearance of deep groove ball bearing

unit: μm

Nominal bearing inner diameter d(mm)		Radial clearance									
		C2		CN(C0)		C3		C4		C5	
Exceed	to	min	max	min	max	min	max	min	max	min	max
2.5	6	0	7	2	13	8	23	-	-	-	-
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90
65	80	1	15	10	30	25	51	46	71	65	105
80	100	1	18	12	36	30	58	53	84	75	120

Vibration Standard(Speed and Acceleration)

Vibration(Acceleration) Limitation of Deep Groove Ball Bearings

unit: dB

Nominal bearing outer diameter D(mm)		Diameter Series 0					Diameter Series 2					Diameter Series 3				
Exceed	to	Z	Z1	Z2	Z3	Z4	Z	Z1	Z2	Z3	Z4	Z	Z1	Z2	Z3	Z4
10	15	36	33	30	27	24	36	33	30	27	24	41	37	33	29	25
15	20	37	34	31	28	25	37	34	31	28	25	42	38	34	30	26
20	25	38	35	32	29	26	40	37	33	29	26	43	39	35	31	27
25	30	39	36	33	30	27	41	38	34	30	27	44	40	36	31	27
30	40	41	38	35	32	29	42	39	36	33	30	46	42	38	33	29
40	50	43	40	37	34	31	44	41	38	35	32	48	44	40	35	31
50	60	45	42	39	36	33	46	43	40	37	34	50	46	42	37	33
60	70	48	45	42	38	35	49	46	42	39	36	52	48	44	39	35
70	80	50	47	44	40	37	51	48	44	41	38	54	50	46	41	37
80	90	52	49	46	42	39	53	50	46	43	40	57	53	48	43	39
90	100	54	51	48	44	41	55	52	48	45	42	59	55	50	45	41
100	110	56	53	50	46	43	58	54	50	47	44	61	57	52	47	43
110	120	58	55	52	48	45	60	56	52	49	46	63	59	54	49	45

Vibration(Speed) Limitation of Deep Groove Ball Bearings

unit: $\mu\text{m/s}$

Nominal bearing outer diameter D(mm)		V			V1			V2			V3			V4		
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Exceed	to															
10	15	110	60	60	80	40	40	55	28	28	40	18	18	28	12	12
15	20	145	70	70	110	50	50	65	30	30	45	18	18	32	12	12
20	25	185	85	95	120	55	60	80	35	35	52	20	20	35	12	12
25	30	225	100	125	145	65	75	95	40	45	60	25	25	38	15	15
30	40	265	120	170	170	75	100	110	50	65	70	32	35	45	20	20
40	50	310	140	220	195	90	130	125	60	85	80	38	50	50	25	30
50	60	360	160	270	225	105	165	145	70	105	90	45	65	55	30	40
60	70	410	185	320	255	120	200	165	80	125	105	52	80	65	35	50
70	80	460	210	370	285	135	235	185	90	145	120	60	95	75	40	60
80	90	510	240	430	320	155	270	205	100	170	135	68	110	85	45	70
90	100	560	270	490	355	175	310	225	110	195	150	75	125	95	50	80
100	110	610	300	550	390	195	350	250	120	220	165	82	140	105	55	90
110	120	660	330	610	425	225	390	275	130	245	180	90	155	115	60	100

PRODUCT SERIES

60 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)				Weight
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin	Open (kg)
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ					
604	604-ZZ	604-2RS	0.97	0.36	43000	48000	56000	4	12	4	0.2	0.0029
605	605-ZZ	605-2RS	1.31	0.49	38000	40000	50000	5	14	5	0.2	0.005
606	606-ZZ	606-2RS	1.96	0.74	34000	38000	45000	6	17	6	0.3	0.006
607	607-ZZ	607-2RS	2.22	0.91	32000	36000	43000	7	19	6	0.3	0.007
608	608-ZZ	608-2RS	3.32	1.38	28000	34000	40000	8	22	7	0.3	0.012
609	609-ZZ	609-2RS	3.35	1.40	24000	32000	34000	9	24	7	0.3	0.016
6000	6000-ZZ	6000-2RS	4.56	1.96	22000	31000	36000	10	26	8	0.3	0.019
6001	6001-ZZ	6001-2RS	5.10	2.38	18000	28000	32000	12	28	8	0.3	0.021
6002	6002-ZZ	6002-2RS	5.58	2.85	15000	24000	28000	15	32	9	0.3	0.026
6003	6003-ZZ	6003-2RS	6.00	3.25	13000	22000	26000	17	35	10	0.3	0.039
6004	6004-ZZ	6004-2RS	9.38	5.02	11000	18000	20000	20	42	12	0.6	0.069
6005	6005-ZZ	6005-2RS	10.06	5.67	9500	15000	18000	25	47	12	0.6	0.075
6006	6006-ZZ	6006-2RS	13.20	8.25	8000	13000	15000	30	55	13	1.0	0.09
6007	6007-ZZ	6007-2RS	16.20	10.30	6700	11000	13000	35	62	14	1.0	0.1
6008	6008-ZZ	6008-2RS	17.00	11.80	6000	10000	12000	40	68	15	1.0	0.19
6009	6009-ZZ	6009-2RS	21.00	14.80	5600	9000	11000	45	75	16	1.0	0.24
6010	6010-ZZ	6010-2RS	22.00	16.20	5000	8500	10000	50	80	16	1.0	0.26
60/22	60/22-ZZ	60/22-2RS	9.40	5.05	10000	13000	17000	22	44	12	0.6	0.074
60/28	60/28-ZZ	60/28-2RS	12.50	7.40	8400	10000	14000	28	52	12	0.6	0.096
60/32	60/32-ZZ	60/32-2RS	15.10	8.15	7200	8700	12000	32	58	13	1.0	0.122

PRODUCT SERIES

62 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)				Weight
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin	Open (kg)
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ					
624	624-ZZ	624-2RS	1.16	0.40	38000	40000	48000	4	13	5	0.2	0.003
625	625-ZZ	625-2RS	1.47	0.60	32000	36000	43000	5	16	5	0.3	0.005
626	626-ZZ	626-2RS	2.22	0.91	30000	32000	40000	6	19	6	0.3	0.008
627	627-ZZ	627-2RS	3.32	1.38	28000	30000	36000	7	22	7	0.3	0.014
628	628-ZZ	628-2RS	3.35	1.40	24000	28000	34000	8	24	8	0.3	0.016
629	629-ZZ	629-2RS	4.56	1.96	22000	28000	34000	9	26	8	0.3	0.02
6200	6200-ZZ	6200-2RS	5.10	2.38	18000	24000	30000	10	30	9	0.6	0.03
6201	6201-ZZ	6201-2RS	6.82	3.05	17000	22000	28000	12	32	10	0.6	0.036
6202	6202-ZZ	6202-2RS	7.65	3.75	14000	20000	24000	15	35	11	0.6	0.046
6203	6203-ZZ	6203-2RS	9.58	4.78	12000	17000	20000	17	40	12	0.6	0.065
6204	6204-ZZ	6204-2RS	12.84	6.65	11000	15000	18000	20	47	14	1.0	0.105
6205	6205-ZZ	6205-2RS	14.01	7.85	9000	13000	15000	25	52	15	1.0	0.125
6206	6206-ZZ	6206-2RS	19.50	11.30	7500	11000	13000	30	62	16	1.0	0.205
6207	6207-ZZ	6207-2RS	25.70	15.30	6300	9500	11000	35	72	17	1.1	0.284
6208	6208-ZZ	6208-2RS	29.51	18.14	5600	8500	10000	40	80	18	1.1	0.366
6209	6209-ZZ	6209-2RS	31.50	20.40	5300	7500	9000	45	85	19	1.1	0.42
6210	6210-ZZ	6210-2RS	35.00	23.20	4800	7100	8500	50	90	20	1.1	0.459
62/22	62/22-ZZ	62/22-2RS	12.84	6.65	9700	12000	14000	22	50	14	1.0	0.119
62/28	62/28-ZZ	62/28-2RS	17.90	9.75	8100	9700	12000	28	58	16	1.0	0.175
62/32	62/32-ZZ	62/32-2RS	20.70	11.60	7100	8400	11000	32	65	17	1.0	0.225

PRODUCT SERIES

63 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)				Weight
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin	Open (kg)
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ					
634	634-ZZ	634-2RS	0.73	0.67	32000	36000	43000	4	16	5	0.3	0.005
635	635-ZZ	635-2RS	2.22	0.91	30000	32000	40000	5	19	6	0.3	0.008
636	636-ZZ	636-2RS	3.30	1.37	28000	30000	36000	6	22	7	0.3	0.014
637	637-ZZ	637-2RS	4.55	1.95	22000	28000	34000	7	26	9	0.3	0.025
638	638-ZZ	638-2RS	4.55	1.95	22000	28000	34000	8	28	9	0.3	0.029
639	639-ZZ	639-2RS	5.10	2.38	20000	24000	30000	9	28	10	0.6	0.036
6300	6300-ZZ	6300-2RS	7.65	3.48	17000	22000	26000	10	35	11	0.6	0.049
6301	6301-ZZ	6301-2RS	9.72	4.23	16000	20000	24000	12	37	12	1.0	0.059
6302	6302-ZZ	6302-2RS	11.50	5.42	13000	17000	20000	15	42	13	1.0	0.082
6303	6303-ZZ	6303-2RS	13.56	6.56	11000	15000	18000	17	47	14	1.0	0.109
6304	6304-ZZ	6304-2RS	15.93	7.81	10000	14000	17000	20	52	15	1.1	0.142
6305	6305-ZZ	6305-2RS	22.40	11.50	8000	11000	13000	25	62	17	1.1	0.229
6306	6306-ZZ	6306-2RS	27.00	15.20	6700	9500	12000	30	72	19	1.1	0.34
6307	6307-ZZ	6307-2RS	33.50	19.20	6000	8500	10000	35	80	21	1.5	0.464
6308	6308-ZZ	6308-2RS	40.50	24.00	5300	7500	9000	40	90	23	1.5	0.636
6309	6309-ZZ	6309-2RS	53.00	32.00	4800	6700	8000	45	100	25	1.5	0.829
6310	6310-ZZ	6310-2RS	62.00	38.50	4300	6000	7500	50	110	27	2.0	1.06
63/22	63/22-ZZ	63/22-2RS	18.40	9.25	9200	11000	13000	22	56	16	1.1	0.179
63/28	63/28-ZZ	63/28-2RS	26.70	14.00	7400	8900	11000	28	68	18	1.1	0.287
63/32	63/32-ZZ	63/32-2RS	29.80	16.90	6500	7700	9500	32	75	20	1.1	0.389

PRODUCT SERIES

67 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)				
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B		rmin
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ			Open	ZZ.2RS	
6700	6700-ZZ	6700-2RS	885	435	-	-	-	10	15	3	4	0.1
6701	6701-ZZ	6701-2RS	928	532	-	-	-	12	18	4	4	0.2
6702	6702-ZZ	6702-2RS	938	580	-	-	-	15	21	4	4	0.2
6703	6703-ZZ	6703-2RS	999	657	-	-	-	17	23	4	4	0.2
6704	6704-ZZ	6704-2RS	1040	730	-	-	-	20	27	4	4	0.2
6705	6705-ZZ	6705-2RS	1090	840	-	-	-	25	32	4	4	0.2
6706	6706-ZZ	6706-2RS	1170	986	-	-	-	30	37	4	4	0.2
6707	6707-ZZ	6707-2RS	1850	1630	-	-	-	35	44	5	5	0.3
6708	6708-ZZ	6708-2RS	2510	2230	-	-	-	40	50	6	6	0.3
6709	6709-ZZ	6709-2RS	2570	2400	-	-	-	45	55	6	6	0.3
6710	6710-ZZ	6710-2RS	2670	2650	-	-	-	50	62	6	6	0.3

PRODUCT SERIES

68 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)				Weight
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin	Open (kg)
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ					
685	685-ZZ	685-2RS	0.715	0.281	40000	45000	53000	5	11	3/5	0.15	0.0019
686	686-ZZ	686-2RS	1.08	0.44	38000	40000	50000	6	13	3.5/5	0.15	0.0026
687	687-ZZ	687-2RS	1.17	0.51	34000	40000	45000	7	14	3.5/5	0.15	0.0029
688	688-ZZ	688-2RS	1.33	0.65	28000	36000	43000	8	16	4/5	0.2	0.004
689	689-ZZ	689-2RS	1.60	0.73	24000	36000	43000	9	17	4/5	0.2	0.0044
61800	61800-ZZ	61800-2RS	1.60	0.75	22000	34000	40000	10	19	5	0.3	0.005
61801	61801-ZZ	61801-2RS	1.92	1.04	20000	32000	38000	12	21	5	0.3	0.007
61802	61802-ZZ	61802-2RS	2.07	1.18	17000	28000	34000	15	24	5	0.3	0.008
61803	61803-ZZ	61803-2RS	2.18	1.28	15000	26000	30000	17	26	5	0.3	0.008
61804	61804-ZZ	61804-2RS	3.45	2.25	13000	22000	26000	20	32	7	0.3	0.02
61805	61805-ZZ	61805-2RS	3.70	2.65	10000	18000	22000	25	37	7	0.3	0.022
61806	61806-ZZ	61806-2RS	4.04	3.14	9000	15000	18000	30	42	7	0.3	0.026
61807	61807-ZZ	61807-2RS	4.27	3.59	7500	14000	16000	35	47	7	0.3	0.03
61808	61808-ZZ	61808-2RS	6.35	5.55	6700	12000	14000	40	52	7	0.3	0.034
61809	61809-ZZ	61809-2RS	6.57	5.88	6000	11000	13000	45	58	7	0.3	0.04
61810	61810-ZZ	61810-2RS	6.40	5.80	5300	9500	11000	50	65	7	0.3	0.057

PRODUCT SERIES

69 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)				Weight
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin	Open (kg)
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ					
693	693-ZZ	693-2RS	0.560	0.179	55000	60000	67000	3	8	3/4	0.15	0.00083
694	694-ZZ	694-2RS	0.960	0.345	43000	48000	56000	4	11	4	0.15	0.00175
695	695-ZZ	695-2RS	1.07	0.42	40000	43000	50000	5	13	4	0.2	0.0025
696	696-ZZ	696-2RS	1.47	0.60	34000	40000	45000	6	15	5	0.3	0.0043
697	697-ZZ	697-2RS	1.61	0.71	30000	36000	43000	7	17	5	0.3	0.0048
698	698-ZZ	698-2RS	2.22	0.91	30000	36000	43000	8	19	6	0.3	0.0068
699	699-ZZ	699-2RS	2.48	1.09	24000	34000	40000	9	20	6	0.3	0.0085
61900	61900-ZZ	61900-2RS	2.70	1.27	22000	32000	38000	10	22	6	0.3	0.011
61901	61901-ZZ	61901-2RS	2.89	1.46	20000	30000	36000	12	24	6	0.3	0.013
61902	61902-ZZ	61902-2RS	4.32	2.25	17000	26000	30000	15	28	7	0.3	0.016
61903	61903-ZZ	61903-2RS	4.58	2.56	15000	24000	28000	17	30	7	0.3	0.018
61904	61904-ZZ	61904-2RS	6.38	3.68	12000	19000	22000	20	37	9	0.3	0.036
61905	61905-ZZ	61905-2RS	6.65	4.20	10000	16000	19000	25	42	9	0.3	0.042
61906	61906-ZZ	61906-2RS	7.25	5.00	8500	14000	17000	30	47	9	0.3	0.049
61907	61907-ZZ	61907-2RS	8.00	5.67	7500	12000	15000	35	55	10	0.6	0.086
61908	61908-ZZ	61908-2RS	13.02	9.21	6300	11000	13000	40	62	12	0.6	0.112
61909	61909-ZZ	61909-2RS	14.10	10.90	5600	9500	12000	45	68	12	0.6	0.126
61910	61910-ZZ	61910-2RS	14.50	11.70	5300	9000	11000	50	72	12	0.6	0.135

PRODUCT SERIES

6200 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)			
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ				
62000	62000-ZZ	62000-2RS	4.56	1.96	22000	30000	36000	10	26	10	0.3
62001	62001-ZZ	62001-2RS	5.10	2.38	18000	28000	32000	12	28	10	0.3
62200	62200-ZZ	62200-2RS	5.10	2.38	18000	24000	30000	10	30	14	0.6
62201	62201-ZZ	62201-2RS	6.82	3.05	17000	22000	28000	12	32	14	0.6
62202	62202-ZZ	62202-2RS	7.65	3.75	14000	20000	24000	15	35	14	0.6
62203	62203-ZZ	62203-2RS	9.58	4.78	12000	17000	20000	17	40	16	0.6
62204	62204-ZZ	62204-2RS	12.84	6.65	11000	15000	18000	20	47	18	1.0
62205	62205-ZZ	62205-2RS	14.01	7.85	9000	13000	15000	25	52	18	1.0
62206	62206-ZZ	62206-2RS	19.50	11.30	7500	11000	13000	30	62	20	1.0
62207	62207-ZZ	62207-2RS	25.70	15.30	6300	9500	11000	35	72	23	1.1
62208	62208-ZZ	62208-2RS	29.51	18.14	5600	8500	10000	40	80	23	1.1
62209	62209-ZZ	62209-2RS	31.50	20.40	5300	7500	9000	45	85	23	1.1
62210	62210-ZZ	62210-2RS	35.00	23.20	4800	7100	8500	50	90	23	1.1

PRODUCT SERIES

16 SERIES

Bearing NO.			Load Rating (kN)		Limiting Speed (rpm)			Boundary dimensions (mm)			
Open	with shields	with seals	Cr	Cor	Grease		Oil	d	D	B	rmin
					RS.2RS	Open.Z.ZZ	Open.Z.ZZ				
16100	16100-ZZ	16100-2RS	5.10	2.38	17000	24000	28000	10	28	8	0.3
16001	-	-	4.03	1.98	-	20000	26000	12	28	7	0.3
16002	-	-	5.58	2.85	-	19000	24000	15	32	8	0.3
16003	-	-	6.00	3.25	-	18000	22000	17	35	8	0.3
16004	-	-	6.34	3.76	-	16000	19000	20	42	8	0.6
16005	-	-	9.50	5.76	-	13000	17000	25	47	8	0.6
16006	-	-	9.94	6.55	-	11000	14000	30	55	9	1.0
16007	-	-	12.20	8.85	-	9500	12000	35	62	9	1.0
16008	-	-	12.60	9.65	-	9000	11000	40	68	9	1.0
16009	-	-	14.90	11.40	-	8500	10000	45	75	10	1.0
16010	-	-	11.25	10.13	-	8000	9500	50	80	10	1.0

PRODUCT SERIES

F SERIES

Bearing NO.	Inner diameter d	Outer diameter D	Flange outer diameter D1		Width B		Flange width C		Load Rating (N)		Limiting Speed (rpm)	
			Open	ZZ.2RS	Open	ZZ.2RS	Open	ZZ.2RS	Cr	Cor	Grease	Oil
F694ZZ	4	11	12.5		4	4	1	1	957	350	44000	49000
F604ZZ	4	12	13.5		4	4	1	1	957	350	41000	46000
F624ZZ	4	13	15		5	5	1	1	1301	488	39000	44000
F634ZZ	4	16	18		5	5	1	1	1340	523	33000	37000
F695ZZ	5	13	15		4	4	1	1	1077	432	37000	41000
F605ZZ	5	14	16		5	5	1	1	1329	507	35000	39000
F625ZZ	5	16	18		5	5	1	1	1729	675	31000	35000
F635ZZ	5	19	22		6	6	1.5	1.5	2336	896	28000	31000
F696ZZ	6	15	17		5	5	1.2	1.2	1340	523	31000	35000
F606ZZ	6	17	19		6	6	1.2	1.2	2263	846	29000	32000
F626ZZ	6	19	22		6	6	1.5	1.5	2336	896	26000	30000
MF117ZZ	7	11	12.2		2.5	3	0.6	0.6	455	202	37000	41000
MF137ZZ	7	13	14.2	14.6	3	4	0.6	0.8	541	276	33000	37000
F687ZZ	7	14	16		3.5	5	1	1.1	1173	513	31000	35000
F697ZZ	7	17	19		5	5	1.2	1.2	1605	719	28000	31000
F607ZZ	7	19	22		6	6	1.5	1.5	2336	896	25000	28000
F627ZZ	7	22	25		7	7	1.5	1.5	3287	1376	23000	26000
MF128ZZ	8	12	13.2	13.6	2.5	3.5	0.6	0.8	543	274	33000	37000
MF148ZZ	8	14	15.6		3.5	4	0.8	0.8	817	386	30000	34000
F688ZZ	8	16	22		4	5	1	1.1	1252	592	28000	31000
F698ZZ	8	19	25		6	6	1.5	1.5	2237	917	24000	27000
F608ZZ	8	22	22		7	7	1.5	1.5	3293	1379	22000	25000
F689ZZ	9	17	19		4	4	1	1.1	1327	668	25000	28000
F699ZZ	9	20	23		6	6	1.5	1.5	2467	1081	23000	26000
F609ZZ	9	24	27		7	7	1.5	1.5	3350	1400	20000	22000
F6800ZZ	10	19	21		5	5	1	1	1700	800	23000	26000
F6900ZZ	10	22	25		6	6	1.5	1.5	2611	1223	21000	23000
F6000ZZ	10	26	28		8	8	2	2	4580	1980	20000	28000
F6801ZZ	12	21	23		5	5	0.8	1	1911	1041	20000	22000
F6901ZZ	12	24	26.5		6	6	1	1.5	2831	1411	18000	21000

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