SNBO
Innovation in Motion

BEARING

SAIBO
Innovation in Motion

SAIBO is one of world recognized manufacturers of precision power transmission components. SAIBO group has two divisions, bearing division and linear motion division.

SAIBO Bearing Division produce precision deep groove ball bearing, high speed angular contact ball bearing, thin section bearing and linear bearing etc. Mainly supplies for the manufactures of automobile, household appliances, motors, machine tools, automation equipment and other industries. Our 60% sales are exported to European, North American and Asian markets.

SAIBO has over 33,000 square meters producing facilities totally and 350 employees with annual production capacity of 35 million bearings. SAIBO has all kinds of testing instruments, including metallographic microscope, video measuring instrument, steel ball vibration measuring instrument, roundness instrument, roughness instrument, groove curvature instrument, length measuring instrument, three coordinate measuring instrument, life testing instrument, velocity and acceleration type vibration measuring instrument. All of these provide an effective guarantee for producing high quality products.

SAIBO means aim for greatness, focus on details. We seek to work with you and promise the following:

- The right product from your application
- A quality product you can trust
- Engineering assistance that is proven and world renown

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Bearing Selection Method

Bearings are widely used in various mechanical devices and instruments. The performance and requirements of bearings in specific application are also diverse. In order to help users quickly select suitable bearings, we have compiled the following selection methods. The listed concerns are not in a fixed order and can be considered comprehensively according to practical applications.

No.	Consideration	Selection Method
1	Installation space	· Preliminary select the inner bore, outer diameter and width of the bearing according to the specific application
2	Load (static load and dynamic load)	· Magnitude and direction of force (Axial and radial direction)
		· Vibration or shock
		- Select the factor of safety fs according to the specific situation
3	Arrangement of bearings	· When using angular contact bearings in pairs, suitable arrangement can obtain the best rotation accuracy and force state.
4	Speed	· The limit speed of the specific application and the speed of long-term operation.
		· In the case of high-speed rotation, lubrication, cooling methods, and the influence of temperature rise on accuracy must be considered
5	Accuracy	· In general, it can be ordinary precision P0
		· high rotation accuracy, high speed, and low friction etc. applications need higher accuracy grade such as P5 and P4
6	Noise and Vibration	· Mainly for precision instruments, household appliances etc. which require low noise and vibration.
7	Rigidity	· For high rigidity requested applications such as machine tool spindles, the rigidity of the bearing must be improved
		· Roller bearings are more rigid than ball bearings
		· Applying preload (negative clearance) can increase the rigidity.
8	Working temperature	· Normal bearing working temperature is -20℃ to 120℃, if it exceeds this range, It should fill high / low temperature grease.
		· Big clearance can resist thermal expansion caused by temperature rise.
9	Sealing performance	· If the sealing requirement is strict, contact rubber seals could be selected, but the friction will be increased.
		· Steel shields could be selected if the friction can't be increased or sealing requirement is not strict
		· If it is to oil-lubricated such as gearboxes, open bearings are generally used
10	Anti-rust requirements	If need anti-rust , stainless steel bearings can be selected
11	Other requirements	For specific applications, please contact us

1. Basic static load rating and safety factor

When a bearing subject to an excessive load or a strong impact load, the bearing may incur a local permanent deformation of the rolling elements and raceway surface if the elastic limit is exceeded. The nonelastic deformation increases in area and depth as the load increases, and when the load exceeds a certain limit, the smooth running of the bearing is impeded. The Basic rated static load refers to the static load capacity by the bearing when the total permanent deformation of 0.0001 times the diameter of the rolling body occurs in the center of the contact surface between the rolling body and the raceway. The basic rated static load of radial bearings is divided into radial basic rated static load and axial basic rated static load, expressed by Cor and Coa.

Safety factor

The safety factor refers to the ratio of the basic rated static load to the equivalent static load. Higher factor indicate more security. In the preliminary selection, if the deep groove ball bearing only subjects to radial load, the equivalent static load can be replaced by radial load. The safety factor is equal to the ratio of the radial basic rated static load to the radial load. Please refer to the table below for the safety factor. If the equivalent static load is complicated, please refer to the bearing design manual.

Table 1.1 Safety Factor

Working Gondiction		MinSafety Factor
		Ball Bearing
Normal rotate	High rotating precision	2
	Normal working condition	1
	Shock load	1.5
Not rotate always (wiggle sometimes)	Normal workina condition	0.5
	Shock load or unevenly distributed loade	1

Rated load and life

For the general use environment, when the speed and load are not too large, the type can be selected simply according to the basic rated static load and safety factor. Then carry out the verification calculation. The load and life calculation of the bearing is professional and complicated. Please refer to the bearing design manual.

2. Limit speed

The limit speed of the bearing is mainly limited by the temperature rise caused by the frictional heat inside the bearing. When the speed exceeds a certain limit, the bearing will not be able to continue to rotate due to burns etc. The limit rotational speed of a bearing is the limit value of the rotational speed at which it can continue to rotate without generating frictional heat that would cause burns. The limit speed of the bearing depends on various factors such as the type, size and accuracy of the bearing, the lubrication method, the quality and quantity of the lubricant, the material and type of the cage, and the load conditions.

3. Accuracy

The accuracy of rolling bearings is divided into dimensional accuracy and rotational accuracy. The accuracy grades have been standardized according to Chinese standard GB307 and ISO492. They are divided into grades 0, 6, 5, 4 and 2 levels.

Table 3.1 Accuracy comparison

Country	Standard	Accurancy Grade				
CHINA	GB307	0	6	5	4	2
ISO	ISO492	0	6	5	4	2
GERMANY	DIN 620/2	P0	P6	P5	P4	P2
USA	ANSI B3.14	ABEC1	ABEC3	ABEC5	ABEC7	ABEC9
JAPAN	JIS B 1514	0	6	5	4	2

4. Noise and Vibration

The **noise** of deep groove ball bearings is rated by **vibration (acceleration).**
Please refer to below table for specific standards.

Table 4.1 Vibration (acceleration) limited value Unit：dB

Nomina O.D.		0 series					2 Series					3 Series				
>	≤	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

The **vibration** of deep groove ball bearings is rated by the **vibration** (**speed**).

Please refer to below table for specific standards.

Table 4.2 Vibration (speed) limited value Unit: μ m/s

Nominal O.D.		V			V1			V2			V3			V4		
>	≤	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
10	15	110	60	60	80	40	40	55	28	28	40	18	18	28	12	12
15	20	145	70	70	100	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

5. Tolerance and Fit

Bearing's gereral tolerance and fit could be refered to the tolerance and fit section in the mechanical design manual. In addition to considering the general fit and tolerance, the application conditions of the bearing should also be fully considered. It includes:

· Feature and magnitude of the load
· Temperature distribution during operation
· Internal clearance
· Machining quality, material and thick structure of shaft and housing
· Compensation of the thermal expansion of the shaft

6. Internal Clearance

The radial and axial clearances are defined as the total amount that one ring can be displaced relative to the other in the radial and axial directions respectively. Theoretically, when the bearing is in normal operation, a slightly negative clearance is beneficial to the life of the bearing. But it is very difficult to maintain this optimal state. Because once a certain use condition changes, the negative clearance of the bearing will increase accordingly, resulting in a significant decrease in the bearing life or heat generation. Therefore, when selecting the initial clearance, the running clearance is required to be slightly bigger than zero.

Table 6.1 Radial Internal clearances in Deep Groove Ball Bearings Unit: μ m

Nominal Bore Diameter d. mm		Clearance									
		C2		CN		C3		C4		C5	
over	incl.	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2.5	6	0	7	2	13	8	23	14	29	20	37
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

7. Temperature

Under normal condition, the bearing can work in the temperature range of -20℃ to 120℃. If the temperature exceeds this range, special seals, retainers, grease and other components should be selected.

8. Lubrication

Normal bearings are usually lubricated with grease. Lubrication can form a thin oil film on surface of the raceways and the rolling elements to prevent direct contact between metal and metal. The effect of lubrication on rolling bearings:

· Reduce friction and wear
· Dissipate frictional heat
· Extend bearing life
· Prevents rust
· Protection against intrusion of external objects

Generally, grease fill 25-35% of the internal space volume of the bearing.

9. Seal

The function of the seal is to prevent the leakage of lubricant in the bearing, intrusion of external dust and water into the bearing. The main factors to consider when choosing a seal: the type of lubricant, the linear speed of the seal, the installation error of the shaft, the friction of between sealing and the inner ring etc. The seal of rolling bearing can be roughly divided into two types: contact type and non-contact type. Bearings that are not sealed are called open type.

10. Anti-rust

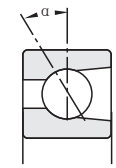
All bearing surfaces are sprayed with anti-rust oil before packing. Anti-rust treatment is required in time after installation. If need better anti-rust effect, stainless steel bearing is available.

11. Angular contact bearings

Angular contact bearings are suitable for high-speed and high-precision rotation. It can subject to complex radial and axial loads. Typical applications are machine tool spindles, mining machinery, wind power generation equipment, etc.

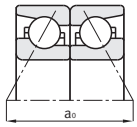
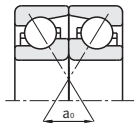
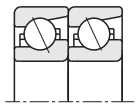
Angular contact bearings include: single row and combination angular contact bearings, double row angular contact ball bearings, four-point contact ball bearings etc.

The contact angle α is 15°, 25°, or 40°
· The contact angle is more bigger, the axial load is more bigger
· Smaller contact angle is more conducive to high-speed rotation



Combination structure of angular contact bearings

When using angular contact bearings in pairs, it is necessary to choose face-to-face, back-to-back or side-by-side pairing methods reasonably according to the force requirements, so as to obtain the best high rotation accuracy and force state. Applied preload can improve the rigidity and rotation accuracy of the bearings.

Figure	Arrangement	Features
	Back–to–back DB (Example) 7208 ADB	Radial loads and axial loads in both directions can be sustained. Since the distance between the effective load centers a0 is big. this type is suitable if moments are applied.
	Face–to–face DF (Example) 7208 BDF	Radial loads and axial loads in both directions can be sustained. Compared with the DB Type, the distance between the effective load centers is small, so the capacity to sustain moments is inferior to the DB Type.
	Tandem DT (Example) 7208 ADT	Radial loads and axial loads in one directions can be sustained. Since two bearings share the axial load, this arrangement is used when the load in one direction is heavy.

12. Thin-Section Bearing

Thin-section (Ultra-thin) bearings have the characteristics of Excellent rotational accuracy, save space, light weight, low friction etc. They are widely used in Robot joints, semiconductor equipment, aerospace equipment and precision instruments etc.

· SAIBO has 20 years' production technology and experience in ultra-thin bearing area
· The thinnest product can achieve a total section thickness of 2.5mm
· Provide bearings for extreme temperature -40°C ~ 260°C
· Customized products available

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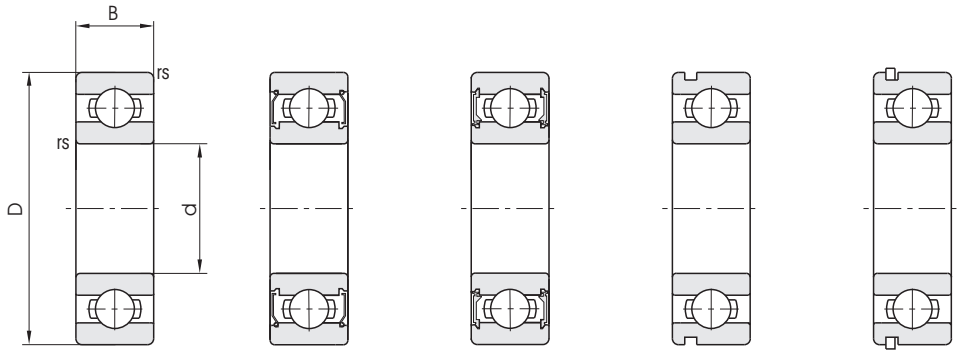
Super-Slim Bearing



Bearing Type					Basic Dimension mm				Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	Cr	Cor	
6700	ZZ	2RS	N	NR	10	15	4	0.1	1.01	0.555	0.0015
6701	ZZ	2RS	N	NR	12	18	4	0.2	1.07	0.655	0.003
6702	ZZ	2RS	N	NR	15	21	4	0.2	1.15	0.790	0.0035
6703	ZZ	2RS	N	NR	17	23	4	0.2	1.20	0.865	0.004
6704	ZZ	2RS	N	NR	20	27	4	0.2	1.79	1.320	0.005
6705	ZZ	2RS	N	NR	25	32	4	0.2	1.93	1.550	0.006
6706	ZZ	2RS	N	NR	30	37	4	0.2	2.05	1.780	0.008
6707	ZZ	2RS	N	NR	35	44	5	0.2	1.862	1.637	0.015
6708	ZZ	2RS	N	NR	40	50	6	0.3	2.519	2.234	0.023
6709	ZZ	2RS	N	NR	45	55	6	0.3	2.577	2.401	0.025
6800	ZZ	2RS	N	NR	10	19	5	0.3	1.84	0.925	0.005
6801	ZZ	2RS	N	NR	12	21	5	0.3	1.90	1.04	0.006
6802	ZZ	2RS	N	NR	15	24	5	0.3	2.08	1.26	0.007
6803	ZZ	2RS	N	NR	17	30	7	0.3	2.81	1.72	0.008
6804	ZZ	2RS	N	NR	20	32	7	0.3	4.0	2.47	0.017
6805	ZZ	2RS	N	NR	25	37	7	0.3	4.3	2.95	0.021
6806	ZZ	2RS	N	NR	30	42	7	0.3	4.70	3.65	0.024
6807	ZZ	2RS	N	NR	35	47	7	0.3	4.75	3.90	0.027
6808	ZZ	2RS	N	NR	40	52	7	0.3	4.90	4.35	0.031
6809	ZZ	2RS	N	NR	45	58	7	0.3	5.35	5.25	0.038
6810	ZZ	2RS	N	NR	50	65	7	0.3	6.40	6.20	0.050

Bearing Type					Basic Dimension mm				Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	Cr	Cor	
6811	ZZ	2RS	N	NR	55	72	9	0.3	9.10	8.40	0.070
6812	ZZ	2RS	N	NR	60	78	10	0.3	9.10	8.70	0.093
6813	ZZ	2RS	N	NR	65	85	10	0.6	11.9	11.5	0.130
6814	ZZ	2RS	N	NR	70	90	10	0.6	12.1	11.9	0.138
6815	ZZ	2RS	N	NR	75	92	10	0.6	12.5	12.8	0.147
6816	ZZ	2RS	N	NR	80	100	10	0.6	12.7	13.3	0.155
6817	ZZ	2RS	N	NR	85	110	13	1	19.2	19.8	0.245
6818	ZZ	2RS	N	NR	90	115	13	1	19.5	20.5	0.258
6819	ZZ	2RS	N	NR	95	120	13	1	19.8	21.3	0.270
6820	ZZ	2RS	N	NR	100	125	13	1	20.1	22.0	0.303
6900	ZZ	2RS	N	NR	10	22	6	0.3	2.70	1.27	0.009
6901	ZZ	2RS	N	NR	12	24	6	0.3	2.90	1.46	0.011
6902	ZZ	2RS	N	NR	15	28	7	0.3	4.40	2.06	0.016
6903	ZZ	2RS	N	NR	17	30	7	0.3	4.65	2.58	0.018
6904	ZZ	2RS	N	NR	20	37	9	0.3	6.40	3.70	0.036
6905	ZZ	2RS	N	NR	25	42	9	0.3	7.05	4.55	0.041
6906	ZZ	2RS	N	NR	30	47	9	0.3	7.25	5.00	0.045
6907	ZZ	2RS	N	NR	35	55	10	0.6	11.20	7.45	0.037
6908	ZZ	2RS	N	NR	40	62	12	0.6	13.9	9.90	0.109
6909	ZZ	2RS	N	NR	45	68	12	0.6	14.0	10.9	0.122
6910	ZZ	2RS	N	NR	50	72	12	0.6	14.6	11.7	0.127
6911	ZZ	2RS	N	NR	55	80	13	1	16.0	13.2	0.181
6912	ZZ	2RS	N	NR	60	85	13	1	16.4	14.2	0.195

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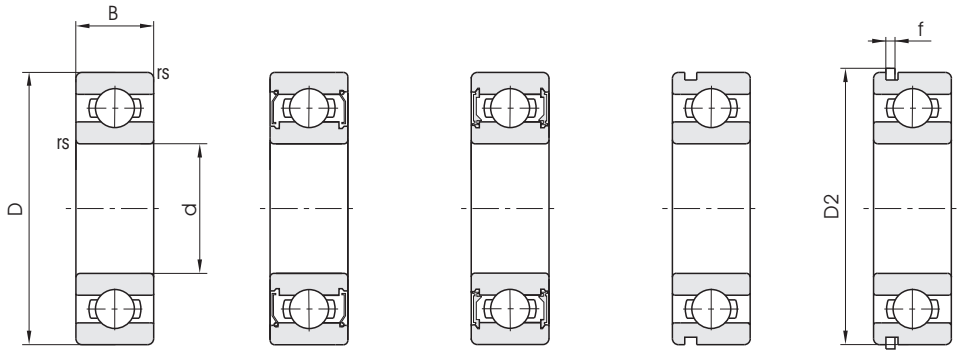
Deep Groove Ball Bearing



Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	D2 (max)	f (max)	Cr	Cor	
6000	ZZ	2RS	N	NR	10	26	8	0.3	29.2	0.7	4.55	1.97	0.018
6001	ZZ	2RS	N	NR	12	28	8	0.3	30.8	0.85	5.00	2.30	0.021
6002	ZZ	2RS	N	NR	15	32	9	0.3	36.7	1.12	5.50	2.80	0.030
6003	ZZ	2RS	N	NR	17	35	10	0.3	39.7	1.12	6.00	3.25	0.040
6004	ZZ	2RS	N	NR	20	42	12	0.6	46.3	1.12	9.38	5.03	0.068
6005	ZZ	2RS	N	NR	25	47	12	0.6	52.7	1.12	10.1	5.83	0.079
6006	ZZ	2RS	N	NR	30	55	13	1	60.7	1.12	13.2	8.30	0.113
6007	ZZ	2RS	N	NR	35	62	14	1	67.7	1.7	16.2	10.4	0.149
6008	ZZ	2RS	N	NR	40	68	15	1	74.6	1.7	17.0	11.7	0.185
6009	ZZ	2RS	N	NR	45	75	16	1	81.6	1.7	21.0	14.8	0.231
6010	ZZ	2RS	N	NR	50	80	16	1	86.6	1.7	22.0	16.3	0.250
6011	ZZ	2RS	N	NR	55	90	18	1.1	96.5	2.46	30.3	22.0	0.362
6012	ZZ	2RS	N	NR	60	95	18	1.1	101.6	2.46	31.7	24.2	0.385
6013	ZZ	2RS	N	NR	65	100	18	1.1	106.5	2.46	32.0	24.8	0.430
6014	ZZ	2RS	N	NR	70	110	20	1.1	116.6	2.46	38.6	30.4	0.569
6015	ZZ	2RS	N	NR	75	115	20	1.1	121.6	2.46	40.2	33.2	0.603
6016	ZZ	2RS	N	NR	80	125	22	1.1	134.7	2.82	47.5	39.8	0.821
6017	ZZ	2RS	N	NR	85	130	22	1.1	139.7	2.82	50.8	42.8	0.848
6018	ZZ	2RS	N	NR	90	140	24	1.5	149.7	2.82	58.0	49.9	1.12
6019	ZZ	2RS	N	NR	95	145	24	1.5	154.7	2.82	57.7	50.0	1.18
6020	ZZ	2RS	N	NR	100	150	24	1.5	159.7	2.82	60.5	54.0	1.25
6021	ZZ	2RS	N	NR	105	160	26	2	169.7	2.82	72.8	65.5	1.60

Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	D2 (max)	f (max)	Cr	Cor	
6022	ZZ	2RS	N	NR	110	170	28	2	182.9	3.1	81.9	72.9	1.93
6024	ZZ	2RS	N	NR	120	180	28	2	192.9	3.1	87.7	79.3	2.03
6026	ZZ	2RS	N	NR	130	200	33	2	212.9	3.1	105	96.8	3.15
6028	ZZ	2RS	N	NR	140	210	33	2	22.8	3.1	111	108	3.35
6030	ZZ	2RS	N	NR	150	225	35	2.1	237	3.5	125	125	4.80
6032	ZZ	2RS	-	-	160	240	38	2.1			137	135	5.15
6034	ZZ	2RS	-	-	170	260	42	2.1			161	161	6.89
6036	ZZ	2RS	-	-	180	280	46	2.1			180	185	8.88
6038	ZZ	2RS	-	-	190	290	46	2.1			188	201	9.39
6040	ZZ	2RS	-	-	200	310	51	2.1			207	226	12
6044	ZZ	2RS	-	-	220	340	56	3			235	271	18.6
6048	ZZ	2RS	-	-	240	360	56	3			244	296	19.9
6052	ZZ	2RS	-	-	260	400	65	4			291	375	29.4
6056	ZZ	2RS	-	-	280	420	65	4			300	410	31.2
6060	ZZ	2RS	-	-	300	460	74	4			355	500	44.2
6201	ZZ	2RS	N	NR	12	32	10	0.6	36.7	1.12	6.00	2.70	0.036
6202	ZZ	2RS	N	NR	15	35	11	0.6	39.7	1.12	7.80	3.75	0.045
6203	ZZ	2RS	N	NR	17	40	12	0.6	44.6	1.12	9.56	4.75	0.065
6204	ZZ	2RS	N	NR	20	47	14	1	52.7	1.12	12.7	6.55	0.103
6205	ZZ	2RS	N	NR	25	52	15	1	57.9	1.12	14.0	7.80	0.127
6206	ZZ	2RS	N	NR	30	62	16	1	87.7	1.7	19.5	11.2	0.203
6207	ZZ	2RS	N	NR	35	72	17	1.1	78.6	1.7	25.5	15.3	0.285
6208	ZZ	2RS	N	NR	40	80	18	1.1	86.6	1.7	30.7	19.0	0.367
6209	ZZ	2RS	N	NR	45	85	19	1.1	91.6	1.7	33.2	21.6	0.416
6210	ZZ	2RS	N	NR	50	90	20	1.1	96.5	2.46	35.1	23.2	0.462
6211	ZZ	2RS	N	NR	55	100	21	1.5	106.5	2.46	43.4	29.2	0.607
6212	ZZ	2RS	N	NR	60	110	22	1.5	116.6	2.46	47.5	32.5	0.783
6213	ZZ	2RS	N	NR	65	120	23	1.5	129.7	2.82	55.9	40.5	0.990
6214	ZZ	2RS	N	NR	70	125	24	1.5	134.7	2.82	60.5	45.0	1.10
6215	ZZ	2RS	N	NR	75	130	25	1.5	139.7	2.82	66.3	49.0	1.20
6216	ZZ	2RS	N	NR	80	140	26	2	149.7	2.82	70.2	55.0	1.40
6217	ZZ	2RS	N	NR	85	150	28	2	159.7	2.82	83.2	64.0	1.80
6218	ZZ	2RS	N	NR	90	160	30	2	169.7	2.82	95.6	73.5	2.15
6219	ZZ	2RS	N	NR	95	170	32	2.1	182.9	3.1	108	81.5	2.6
6220	ZZ	2RS	N	NR	100	180	34	2.1	192.9	3.1	122	92.7	3.20

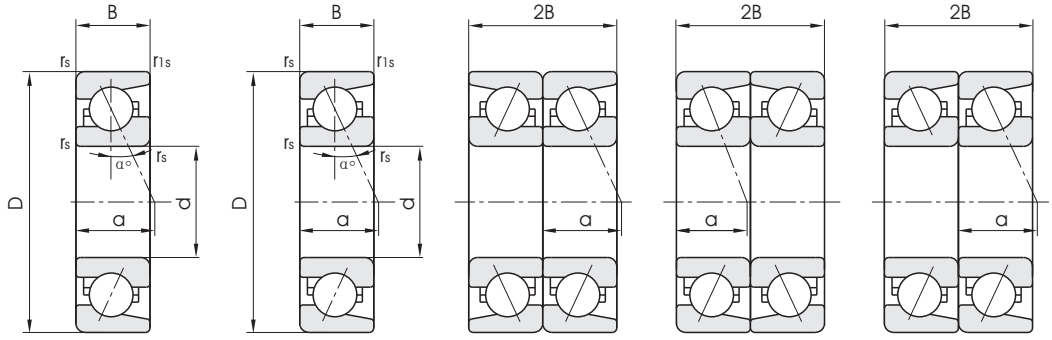
SNBO
Innovation in Motion

Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	r s min	D2 (max)	f (max)	Cr	Cor	
6221	ZZ	2RS	N	NR	105	190	36	2.1	202.9	3.1	133	104	3.71
6222	ZZ	2RS	N	NR	110	200	38	2.1	212.9	3.1	144	117	4.44
6224	ZZ	2RS	N	NR	120	215	40	2.1	227.8	3.1	155	130	5.32
6226	ZZ	2RS	N	NR	130	230	40	3	242	3.5	165	147	6.13
6228	ZZ	2RS	N	NR	140	250	42	3	262	3.5	165	125	7.45
6230	ZZ	2RS	-	-	150	270	45	3	-	-	174	137	9.40
6232	ZZ	2RS	-	-	160	290	68	3	-	-	185	186	12.8
6234	ZZ	2RS	-	-	170	310	62	4	-	-	212	224	15.8
6236	ZZ	2RS	-	-	180	320	52	4	-	-	227	241	15.9
6238	ZZ	2RS	-	-	190	340	55	4	-	-	255	282	22.3
6240	ZZ	2RS	-	-	200	360	58	4	-	-	269	310	26.7
6244	ZZ	2RS	-	-	220	400	65	4	-	-	310	375	37.4
6248	ZZ	2RS	-	-	240	440	72	4	-	-	340	430	50.5
6252	ZZ	2RS	-	-	260	480	80	5	-	-	400	540	67
6256	ZZ	2RS	-	-	280	500	80	5	-	-	400	550	70.4
6260	ZZ	2RS	-	-	300	540	85	5	-	-	465	670	87.8
6301	ZZ	2RS	N	NR	12	37	12	1	41.3	1.12	9.7	4.20	0.060
6302	ZZ	2RS	N	NR	15	42	13	1	46.3	1.12	11.4	5.40	0.082
6303	ZZ	2RS	N	NR	17	47	14	1	52.7	1.12	13.5	6.55	0.115
6304	ZZ	2RS	N	NR	20	52	15	1.1	57.9	1.12	15.9	7.80	0.141
6305	ZZ	2RS	N	NR	25	62	17	1.1	67.7	1.7	22.5	11.6	0.219
6306	ZZ	2RS	N	NR	30	72	19	1.1	78.6	1.7	28.1	16.0	0.350
6307	ZZ	2RS	N	NR	35	80	21	1.5	86.6	1.7	33.2	19.0	0.454
6308	ZZ	2RS	N	NR	40	90	23	1.5	96.5	2.46	31.4	22.4	0.639
6309	ZZ	2RS	N	NR	45	100	25	1.5	106.5	2.46	52.7	31.5	0.836
6310	ZZ	2RS	N	NR	50	110	27	2	116.6	2.46	61.8	38.0	1.05
6311	ZZ	2RS	N	NR	55	120	29	2	129.7	2.82	71.5	45.0	1.35
6312	ZZ	2RS	N	NR	60	130	31	2.1	139.7	2.82	81.9	52.0	1.70
6313	ZZ	2RS	N	NR	65	140	33	2.1	149.7	2.82	92.3	60.0	2.10
6314	ZZ	2RS	N	NR	70	150	35	2.1	159.7	2.82	104	68.0	2.50
6315	ZZ	2RS	N	NR	75	160	37	2.1	169.7	2.82	114	76.5	3.00
6316	ZZ	2RS	N	NR	80	170	39	2.1	182.9	3.1	124	86.5	3.60
6317	ZZ	2RS	N	NR	85	180	41	3	192.9	3.1	133	96.5	4.25
6318	ZZ	2RS	N	NR	90	190	43	3	202.9	3.1	143	108	4.90
6319	ZZ	2RS	N	NR	95	200	45	3	212.9	3.1	153	119	5.75

Bearing Type					Basic Dimension mm						Load Rating kN		Weight kg
Open	Shielded	Sealed	With stop groove	With located snap ring	d	D	B	$r_{s\,min}$	D2 (max)	f (max)	Cr	Cor	
6320	ZZ	2RS	N	NR	100	215	47	3	227.8	3.1	174	140	7.00
6321	ZZ	2RS	-	-	105	225	49	3	237	3.5	182	153	8.25
6322	ZZ	2RS	-	-	110	240	50	3	252	3.5	205	178	9.54
6324	ZZ	2RS	-	-	120	260	55	3	-	-	228	207	12.2
6326	ZZ	2RS	-	-	130	280	58	4	-	-	229	216	18.0
6328	ZZ	2RS	-	-	140	300	62	4	-	-	251	245	22.0
6330	ZZ	2RS	-	-	150	320	65	4	-	-	274	284	22.7
6332	ZZ	2RS	-	-	160	340	68	4	-	-	278	287	26.2
6334	ZZ	2RS	-	-	170	360	72	4	-	-	325	355	36.6
6336	ZZ	2RS	-	-	180	380	75	4	-	-	355	405	43.1
6338	ZZ	2RS	-	-	190	400	78	5	-	-	355	415	49.7
6340	ZZ	2RS	-	-	200	420	80	5	-	-	380	445	55.3
6344	ZZ	2RS	-	-	220	460	88	5	-	-	410	520	73.9
6348	ZZ	2RS	-	-	240	500	95	5	-	-	470	625	94.4
6352	ZZ	2RS	N	NR	260	540	102	6	-	-	505	710	118
6356	ZZ	2RS	N	NR	280	580	108	6	-	-	570	840	144

SNBO
Innovation in Motion

Angular Contact Ball Bearing(Super-Slim)



C: angle α=15°
AC: angle α=25°

B: angle α=40°

Back-to-back
DB

Face-to-face
DF

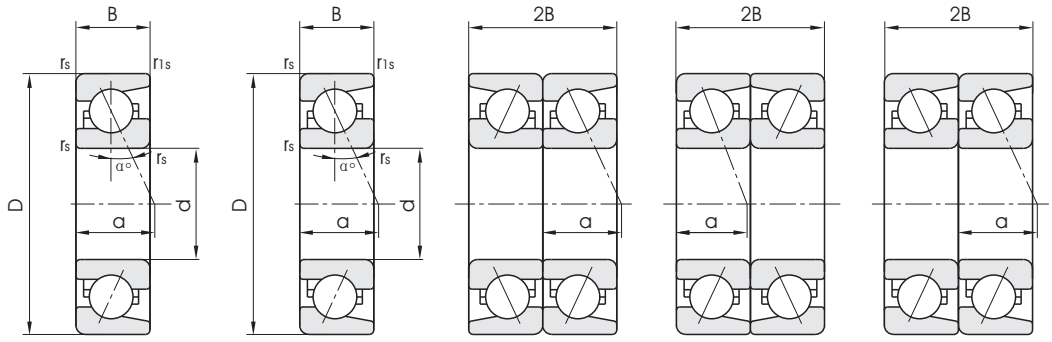
Single & Tandem
DT

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	a	Grease	Oil	Cr	Cor	
71805C	25	37	7	0.3	0.15	7.7	21500	27700	4.40	3.92	0.025
71805AC	25	37	7	0.3	0.15	10.7	18400	24600	4.13	3.66	0.025
71806C	30	42	7	0.3	0.15	8.3	18500	23800	4.73	4.62	0.029
71806AC	30	42	7	0.3	0.15	11.9	15900	21200	4.44	4.32	0.029
71807C	35	47	7	0.3	0.15	9	16300	20900	4.92	5.14	0.034
71807AC	35	47	7	0.3	0.15	13.1	13900	18600	4.62	4.81	0.034
71808C	40	52	7	0.3	0.15	9.7	14500	18600	5.20	5.84	0.040
71808AC	40	52	7	0.3	0.15	14.2	12400	16600	4.88	5.46	0.040
71809C	45	58	7	0.3	0.15	10.4	12900	16600	6.54	7.52	0.051
71809AC	45	58	7	0.3	0.15	15.5	11100	14800	6.14	7.03	0.051
71810C	50	65	7	0.3	0.15	11.2	11600	14900	6.85	8.41	0.068
71810AC	50	65	7	0.3	0.15	16.9	9900	13200	6.44	7.87	0.068
71811C	55	72	9	0.3	0.15	13	10500	13500	9.38	11.4	0.109
71811AC	55	72	9	0.3	0.15	19.3	9000	12000	8.81	10.7	0.109
71812C	60	78	10	0.3	0.15	14.2	9600	12400	9.69	12.4	0.139
71812AC	60	78	10	0.3	0.15	21.1	8300	11000	9.11	11.6	0.139
71813C	65	85	10	0.6	0.15	15	8900	11400	12.5	16.0	0.198
71813AC	65	85	10	0.6	0.15	22.5	7600	10100	11.8	15.0	0.198
71814C	70	90	10	0.6	0.15	15.7	8300	10700	13.0	17.4	0.217
71814AC	70	90	10	0.6	0.15	23.7	7100	9500	12.2	16.2	0.217
71815C	75	95	10	0.6	0.15	16.4	7800	10100	13.2	18.2	0.226
71815AC	75	95	10	0.6	0.15	24.8	6700	8900	12.4	17.1	0.226

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	a	Grease	Oil	Cr	Cor	
71816C	80	100	10	0.6	0.15	17.1	7400	9500	13.7	19.6	0.245
71816AC	80	100	10	0.6	0.15	26	6300	8400	12.8	18.3	0.245
71817C	85	110	13	1	0.3	19.6	6800	8800	20.4	28.1	0.404
71817AC	85	110	13	1	0.3	29.2	5800	7800	19.2	26.2	0.404
71818C	90	115	13	1	0.3	20.2	6500	8300	20.8	29.5	0.426
71905C	25	42	9	0.3	0.15	9	25600	28100	7.35	6.33	0.056
71905AC	25	42	9	0.3	0.15	12.3	22800	25500	6.91	5.91	0.056
71906C	30	47	9	0.3	0.15	9.7	22300	24300	7.61	6.96	0.064
71906AC	30	47	9	0.3	0.15	13.5	19800	22100	7.14	6.50	0.064
71907C	35	55	10	0.6	0.15	11	19000	21800	10.3	9.95	0.117
71907AC	35	55	10	0.6	0.15	15.5	16900	18900	9.73	9.29	0.117
71908C	40	62	12	0.6	0.15	12.8	16800	18500	14.4	14.0	0.164
71908AC	40	62	12	0.6	0.15	17.9	14900	17900	13.6	13.1	0.164
71909C	45	68	12	0.6	0.15	13.6	15200	17200	15.0	15.3	0.194
71909AC	45	68	12	0.6	0.15	19.2	13500	16400	14.1	14.3	0.194
71910C	50	72	12	0.6	0.15	14.4	13700	15300	15.9	17.3	0.213
71910AC	50	72	12	0.6	0.15	20.6	12200	14500	14.9	16.1	0.213
71911C	55	80	13	1	0.3	15.5	12700	13900	17.5	19.3	0.278
71911AC	55	80	13	1	0.3	22.2	11300	13100	16.4	18.1	0.278
71912C	60	85	13	1	0.3	16.2	11800	12600	18.0	20.8	0.301
71912AC	60	85	13	1	0.3	23.4	9000	10500	16.9	19.4	0.301
71913C	65	90	13	1	0.3	16.9	8600	11000	18.6	22.2	0.316
71913AC	65	90	13	1	0.3	24.6	7300	9800	17.4	20.8	0.316
71914C	70	100	16	1	0.3	19.4	7800	10100	26.2	31.1	0.555
71914AC	70	100	16	1	0.3	27.8	6700	8900	24.6	29.1	0.555
71915C	75	105	16	1	0.3	20.1	7400	9500	26.4	32.2	0.574
71915AC	75	105	16	1	0.3	29	6300	8400	24.8	30.1	0.571
71916C	80	110	16	1	0.3	20.7	7000	9000	27.2	34.4	0.616
71916AC	80	110	16	1	0.3	30.1	6000	8000	25.6	32.1	0.616
71917C	85	120	18	1.1	0.6	22.7	6500	8300	36.1	45.1	0.904
71917AC	85	120	18	1.1	0.6	32.9	5500	7400	33.9	42.1	0.904
71918C	90	125	18	1.1	0.6	23.4	6200	7900	36.4	46.6	0.930
71918AC	90	125	18	1.1	0.6	34.1	5300	7100	34.2	43.5	0.930
71919C	95	130	18	1.1	0.6	24.1	5900	7600	37.6	49.6	0.992
71919AC	95	130	18	1.1	0.6	35.2	5000	6700	35.3	46.4	0.992

SNBO
Innovation in Motion

Angular Contact Ball Bearing



C: angle α=15°
AC: angle α=25°

B: angle α=40°

Back-to-back
DB

Face-to-face
DF

Single & Tandem
DT

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	a	Grease	Oil	Cr	Cor	
7003C	17	35	10	0.3	0.15	8.5	25500	33000	6.61	3.76	0.038
7003AC	17	35	10	0.3	0.15	11.1	22000	29000	6.32	3.53	0.038
7004C	20	42	12	0.6	0.15	10.2	21500	28000	10.47	6.01	0.066
7004AC	20	42	12	0.6	0.15	13.2	18500	25000	10.0	5.58	0.066
7005C	25	47	12	0.6	0.15	10.8	18500	24000	11.68	7.43	0.078
7005AC	25	47	12	0.6	0.15	14.4	16000	21000	11.18	6.89	0.078
7006C	30	55	13	1	0.3	12.3	15500	20000	15.13	10.27	0.112
7006AC	30	55	13	1	0.3	16.5	13500	18000	14.49	9.56	0.112
7007C	35	62	14	1	0.3	13.5	14000	18000	19.45	13.72	0.15
7007AC	35	62	14	1	0.3	18.3	12000	16000	18.6	12.87	0.15
7008C	40	68	15	1	0.3	14.7	12500	16000	20.13	15.07	0.18
7008AC	40	68	15	1	0.3	20.1	11000	14000	19.26	14.14	0.18
7009C	45	75	16	1	0.3	16	11000	14000	25.85	20.21	0.23
7009AC	45	75	16	1	0.3	22	9500	13000	24.83	18.96	0.23
7010C	50	80	16	1	0.3	16.7	10500	13000	26.7	21.73	0.25
7010AC	50	80	16	1	0.3	23.2	8800	12000	25.53	20.38	0.25
7011C	55	90	18	1.1	0.6	18.7	9200	12000	37.29	30.09	0.37
7011AC	55	90	18	1.1	0.6	25.9	7900	10500	35.66	28.24	0.37
7012C	60	95	18	1.1	0.6	19.5	8500	11000	38.38	32.39	0.39
7012AC	60	95	18	1.1	0.6	27.3	7300	9700	36.7	30.39	0.39
7013C	65	100	18	1.1	0.6	20.1	8100	10000	40.25	35.14	0.42
7013AC	65	100	18	1.1	0.6	28.2	7000	9300	38.49	32.97	0.42

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	α	Grease	Oil	Cr	Cor	
7014C	70	110	20	1.1	0.6	22.1	7400	9500	48.51	42.96	0.58
7014AC	70	110	20	1.1	0.6	31	6400	8500	46.39	40.31	0.58
7015C	75	115	20	1.1	0.6	22.9	7000	9000	49.74	45.77	0.63
7015AC	75	115	20	1.1	0.6	32.4	6000	8000	47.57	42.95	0.63
7016C	80	125	22	1.1	0.6	24.9	6400	8300	58.85	54.9	0.82
7016AC	80	125	22	1.1	0.6	35.2	5500	7300	56.29	51.51	0.82
7017C	85	130	22	1.1	0.6	25.5	6200	8000	62.83	59.17	0.86
7017AC	85	130	22	1.1	0.6	36.3	5300	7000	60.09	55.52	0.86
7018C	90	140	24	1.5	0.6	27.7	5700	7300	71.82	68.68	1.12
7018AC	90	140	24	1.5	0.6	39.3	4900	6500	67.61	65.81	1.12
7019C	95	145	24	1.5	0.6	28.1	5600	7100	73.91	75.56	1.17
7019AC	95	145	24	1.5	0.6	40	4800	6400	70.68	68.08	1.17
7020C	100	150	24	1.5	0.6	28.7	5300	6900	79.8	77.44	1.25
7203C	17	40	12	0.6	0.3	9.9	23000	30000	10.83	5.78	0.062
7203AC	17	40	12	0.6	0.3	12.8	20000	26000	10.36	5.42	0.062
7203B	17	40	12	0.6	0.3	18.2	16500	23000	9.21	4.58	0.066
7204C	20	47	14	1	0.3	11.6	20000	25000	14.54	8.03	0.10
7204AC	20	47	14	1	0.3	15	17000	22000	13.9	7.53	0.10
7204B	20	47	14	1	0.3	21.5	14000	20000	12.36	6.37	0.11
7205C	25	52	15	1	0.3	12.7	17000	22000	16.57	10.14	0.12
7205AC	25	52	15	1	0.3	16.6	15000	20000	15.85	9.51	0.12
7205B	25	52	15	1	0.3	23.9	12000	17000	14.09	8.04	0.13
7206C	30	62	16	1	0.3	14.2	14000	18000	23.03	14.56	0.19
7206AC	30	62	16	1	0.3	18.8	12000	16000	22.0	13.66	0.19
7206B	30	62	16	1	0.3	27.5	10000	4000	19.56	11.55	0.20
7207C	35	72	17	1.1	0.6	15.7	12500	16000	30.34	19.7	0.27
7207AC	35	72	17	1.1	0.6	21	11000	14000	29.01	18.49	0.27
7207B	35	72	17	1.1	0.6	30.9	9000	12500	25.79	15.63	0.29
7208C	40	80	18	1.1	0.6	17	11000	14000	36.81	25.31	0.35
7208AC	40	80	18	1.1	0.6	23	9500	13000	35.2	23.75	0.35
7208B	40	80	18	1.1	0.6	34.2	8000	11000	31.29	20.07	0.37
7209C	45	85	19	1.1	0.6	18.3	10000	13000	38.67	27.96	0.40
7209AC	45	85	19	1.1	0.6	24.9	8700	12000	36.98	26.24	0.40
7209B	45	85	19	1.1	0.6	37.2	7000	10000	32.88	22.18	0.42
7210C	50	90	20	1.1	0.6	19.4	9500	12000	42.83	31.34	0.45

SNBO
Innovation in Motion

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	α	Grease	Oil	Cr	Cor	
7210AC	50	90	20	1.1	0.6	26.3	8200	11000	40.81	30.31	0.45
7210B	50	90	20	1.1	0.6	39.4	6800	9500	36.41	24.85	0.47
7211C	55	100	21	1.1	0.6	20.9	8600	11000	52.98	39.5	0.59
7211AC	55	100	21	1.1	0.6	28.6	7400	9900	50.98	37.06	0.59
7211B	55	100	21	1.5	0.6	43	6200	8600	45.04	31.33	0.61
7212C	60	110	22	1.5	0.6	22.4	7900	10000	61.05	47.7	0.76
7212AC	60	110	22	1.5	0.6	30.8	6700	9000	58.38	44.76	0.76
7212B	60	110	22	1.5	0.6	46.7	5600	7900	51.9	37.83	0.78
7213C	65	120	23	1.5	0.6	23.9	7200	9300	69.88	54.08	0.95
7213AC	65	120	23	1.5	0.6	33.1	6200	8300	66.83	50.74	0.95
7213B	65	120	23	1.5	0.6	50.3	5200	7200	59.41	42.89	0.98
7214C	70	125	24	1.5	0.6	25.3	6800	8700	72.98	59.3	1.04
7214AC	70	125	24	1.5	0.6	35.1	5800	7700	69.8	55.64	1.04
7214B	70	125	24	1.5	0.6	53.5	4800	6800	62.05	47.02	1.10
7215C	75	130	25	1.5	0.6	26.5	6400	8200	79.29	65.19	1.14
7215AC	75	130	25	1.5	0.6	36.9	5500	7300	75.83	61.17	1.14
7215B	75	130	25	1.5	0.6	56.3	4600	6400	67.41	51.7	1.18
7216C	80	140	26	2	1	27.9	6000	7700	89.65	76.28	1.39
7216AC	80	140	26	2	1	38.9	5200	6900	85.74	71.57	1.39
7216B	80	140	26	2	1	59.6	4300	6000	76.22	60.49	1.45
7217C	85	150	28	2	1	59.9	5600	7200	99.85	84.21	1.73
7217AC	85	150	28	2	1	41.7	4800	6400	95.5	79.01	1.73
7217B	85	150	28	2	1	63.9	4000	5600	84.89	66.78	1.80
7218C	90	160	30	2	1	31.7	5300	6900	122.7	103.5	2.13
7218AC	90	160	30	2	1	44.1	4600	6100	117.4	97.14	2.13
7218B	90	160	30	2	1	67.4	3800	5300	104.3	82.1	2.20
7219C	95	170	32	2.1	1.1	33.8	5000	6500	134.6	112.2	2.58
7219AC	95	170	32	2.1	1.1	46.9	4300	5800	128.3	108.2	2.58
7219B	95	170	32	2.1	1.1	71.6	3600	5000	114.4	88.99	2.66
7220C	100	180	34	2.1	1.1	35.8	4800	6100	149.1	125.3	3.08
7220AC	100	180	34	2.1	1.1	49.6	4100	5500	142.6	117.6	3.08
7220B	100	180	34	2.1	1.1	75.7	3400	4800	126.8	99.43	3.17
7302AC	15	42	13	1	0.3	13.4	19000	26000	12.62	6.33	0.06
7302B	15	42	13	1	0.3	18.9	16000	23000	11.22	5.35	0.07
7303AC	17	47	14	1	0.3	14.6	17000	23000	14.98	7.66	0.11

Bearing Type	Basic Dimension mm					Point of action mm	Limited Speeds rpm		Load Rating kN		Weight kg
	d	D	B	r s min	r 1s min	α	Grease	Oil	Cr	Cor	
7303B	17	47	14	1	0.3	20.6	15000	21000	13.32	6.47	0.12
7304AC	20	52	15	1.1	0.6	15.9	16000	21000	17.9	9.62	0.14
7304B	20	52	15	1.1	0.6	22.6	13000	19000	16.15	8.7	0.15
7305AC	25	62	17	1.1	0.6	18.6	13000	18000	25.17	14.04	0.22
7305B	25	62	17	1.1	0.6	26.8	11000	15000	21.98	11.33	0.23
7306AC	30	72	19	1.1	0.6	21.6	11000	15000	29.51	17.91	0.33
7306B	30	72	19	1.1	0.6	31.3	9200	13000	25.99	14.54	0.35
7307AC	35	80	21	1.5	0.6	24.1	9800	13000	38.82	24.72	0.44
7307B	35	80	21	1.5	0.6	35	8200	11000	34.63	22.1	0.46
7308AC	40	90	23	1.5	0.6	26.8	8700	11500	47.45	31.15	0.61
7308B	40	90	23	1.5	0.6	39	7300	10000	41.75	25.28	0.64
7309AC	45	100	25	1.5	0.6	29.4	7900	10500	60.9	39.46	0.83
7309B	45	100	25	1.5	0.6	42.9	6600	9200	54.14	33.35	0.86
7310AC	50	110	27	2	1	32.3	7100	9500	72.13	49.24	1.05
7310B	50	110	27	2	1	47.3	5900	8300	64.35	43.88	1.10
7311AC	55	120	29	2	1	35.1	6500	8600	83.4	58.04	1.34
7311B	55	120	29	2	1	51.6	5400	7600	73.31	46.95	1.40
7312AC	60	130	31	2.1	1.1	67.6	6000	8000	99.99	70.48	1.68
7312B	60	130	31	2.1	1.1	55.4	5000	7000	88.89	59.57	1.75
7313AC	65	140	33	2.1	1.1	40.4	5600	7500	113.3	81.11	2.06
7313B	65	140	33	2.1	1.1	59.5	4700	6500	100.7	68.56	2.14
7314AC	70	150	35	2.1	1.1	43.1	5200	6900	121.2	88.25	2.50
7314B	70	150	35	2.1	1.1	63.7	4300	6100	106.8	71.65	2.60
7315AC	75	160	37	2.1	1.1	45.9	4900	6500	138.7	104.6	3.09
7315B	75	160	37	2.1	1.1	67.8	4400	5700	123.3	88.43	3.18
7316AC	80	170	39	2.1	1.1	48.6	4600	6100	150.3	117.5	3.55
7316B	80	170	39	2.1	1.1	71.9	3800	5300	133.6	99.37	3.65
7317AC	85	180	41	3	1.1	51.4	4300	5800	153.1	121	4.18
7317B	85	180	41	3	1.1	76.1	3600	5000	136.1	102.3	4.28
7318AC	90	190	43	3	1.1	54.4	4100	5500	174.4	146.5	4.88
7318B	90	190	43	3	1.1	80.2	3400	4800	155.0	123.8	5.00
7319AC	95	200	45	3	1.1	56.9	3900	5200	191.6	165.0	5.65
7319B	95	200	45	3	1.1	84.4	3200	4500	170.3	140.1	5.80
7320AC	100	215	47	3	1.1	60.2	3600	4900	211.5	190.8	6.90
7320B	100	215	47	3	1.1	89.6	3000	4200	188.0	161.3	7.10
7321AC	105	225	49	3	1.1	72.1	3500	4400	208.0	193.0	8.62

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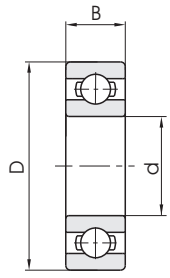
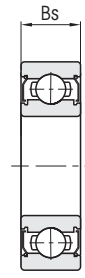
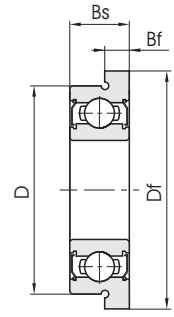
Miniature Bearing



Open



Sealed



FLANDED

Bearing Type	Basic Dimension mm				Load Rating kN		Flange Dia. Df		Flange Width Bf		Weight g	
	d	D	B Open	Bs Sealed	Cr	Cor	Open mm	Sealed mm	Open mm	Sealed mm	Open	Sealed
MR63	3	6	2.0	2.5	242	94	7.2	7.2	0.6	0.6	0.20	0.26
683	3	7	2.0	3.0	390	130	8.1	8.1	0.5	0.8	0.33	0.38
MR83	3	8	2.5	3.0	560	180	9.2	-	0.6	0.8	0.52	0.60
693	3	8	3.0	4.0	560	180	9.5	9.5	0.7	0.9	0.61	0.72
MR93	3	9	2.5	4.0	635	219	10.2	10.6	0.6	0.8	0.71	0.79
603	3	9	3.0	5.0	635	219	10.5	10.5	0.7	1.0	0.92	1.00
623	3	10	4.0	4.0	640	224	11.5	11.5	1.0	1.0	1.60	1.80
633	3	13	5.0	5.0	1301	488	15.0	15.0	1.0	1.0	3.27	3.43
MR74	4	7	2.0	2.5	311	117	8.2	8.2	0.6	0.6	0.28	0.35
MR84	4	8	2.0	3.0	395	141	9.2	9.2	0.6	0.6	0.38	0.46
684	4	9	2.5	4.0	641	227	10.3	10.3	0.6	1.0	0.67	0.76
MR104	4	10	3.0	4.0	711	272	11.2	11.6	0.6	0.8	1.0	1.1
694	4	11	4.0	4.0	957	350	12.5	12.5	1.0	1.0	1.80	2.00
604	4	12	4.0	4.0	970	360	13.5	13.5	1.0	1.0	2.1	2.3
624	4	13	5.0	5.0	1310	490	15.0	15.0	1.0	1.0	3.2	3.5
634	4	16	5.0	5.0	1760	680	18.0	18.0	1.0	1.0	5.1	5.44
MR85	5	8	2.0	2.5	308	124	9.2	9.2	0.6	0.6	0.32	0.4
MR95	5	9	2.5	3.0	500	211	10.2	10.2	0.6	0.6	0.55	0.63
MR105	5	10	3.0	4.0	715	276	11.2	11.6	0.6	0.8	0.88	0.97
MR115	5	11	-	4.0	716	282	12.6	12.6	-	0.8	1.8	2.0
685	5	11	3.0	5.0	716	282	12.5	12.5	0.8	1.0	1.1	1.3
698	5	13	4.0	4.0	1080	432	15.0	15.0	1.0	1.0	2.4	2.7

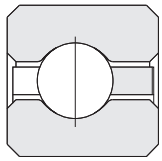
Bearing Type	Basic Dimension mm				Load Rating kN		Flange Dia. Df		Flange Width Bf		Weight g	
	d	D	B Open	Bs Sealed	Cr	Cor	Open mm	Sealed mm	Open mm	Sealed mm	Open	Sealed
605	5	14	5.0	5.0	1330	507	16.0	16.0	1.0	1.0	3.5	3.9
625	5	16	5.0	5.0	1760	680	18.0	18.0	1.0	1.0	4.8	5.2
635	5	19	6.0	6.0	2340	896	22.0	22.0	1.5	1.5	8.0	8.89
MR106	6	10	2.5	3.0	530	240	11.2	11.2	0.6	0.6	0.65	0.74
MR126	6	12	3.0	4.0	830	365	13.2	13.6	0.6	0.8	1.3	1.4
686	6	13	3.5	5.0	1082	442	15.0	15.0	1.0	1.1	1.9	2.2
696	6	15	5.0	5.0	1350	530	17.0	17.0	1.2	1.2	3.8	4.3
606	6	17	6.0	6.0	2263	865	19.0	19.0	1.2	1.2	6.0	6.5
626	6	19	6.0	6.0	2340	896	22.0	22.0	1.5	1.5	8.1	9.2
MR117	7	11	2.5	3.0	555	269	12.2	12.2	0.6	0.6	0.67	0.77
MR137	7	13	3.0	4.0	825	375	14.2	14.2	0.6	0.8	1.4	1.5
687	7	14	3.5	5.0	1173	513	16.0	16.0	1.0	1.1	2.1	2.4
697	7	17	5.0	5.0	1610	719	19.0	19.0	1.2	1.2	5.2	5.7
607	7	19	6.0	6.0	2336	910	22.0	22.0	1.5	1.5	8.0	8.24
627	7	22	7.0	7.0	3350	1400	25.0	22.0	1.5	1.5	13	13.10
MR128	8	12	2.5	3.5	575	298	13.2	13.6	0.6	0.8	0.75	0.86
MR148	8	14	3.5	4.0	820	386	15.6	15.6	0.8	0.8	1.8	1.9
688	8	16	4.0	5.0	1260	592	18.0	18.0	1.0	1.1	3.1	3.5
698	8	19	6.0	6.0	2240	910	22.0	22.0	1.5	1.5	7.3	8.4
608	8	22	7.0	7.0	3350	1400	25.0	25.0	1.5	1.5	12	13
628	8	24	8.0	8.0	4000	1590	-	-	-	-	17	18.50
609	9	24	7.0	7.0	3400	1450	27.0	-	1.5	1.5	14	16.00
629	9	26	8.0	8.0	4575	1983	-	-	-	-	20	21.80

Super Slim Bearing

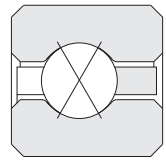
Super Slim (Ultra Thin Section) bearings have the characteristics of compact structure to save space, light weight, excellent running accuracy, low rotational friction etc. SAIBO is one of largest super slim bearing manufacturers in the world who has 20 years' production technology and experience. SAIBO super slime bearings are well known by its performance and life.

Insid Stmucture.

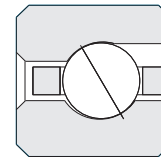
SAIBO produce three structures of super slim bearing. They are Deep Groove Ball bearing (Type C), Angular Contact Ball Bearing (Type A) and Four Point Contact Ball Bearing (Type X). Sealed Bearings are available.



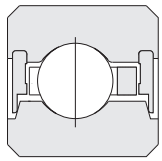
(Type C)
Deep Groove Ball bearing



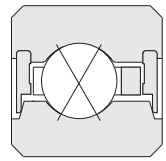
(Type X)
Four Point Contact Ball Bearing



(Type A)
Angular Contact Ball Bearing



(Type C Sealed)
Deep Groove Ball bearing



(Type X Sealed)
Four Point Contact Ball Bearing

Inch and Metric size

SAIBO produce both Inch series and Metric series bearing. Inch series range from .187 x .187 inch to 1.000 x 1.000 inch in cross-section with max outer diameter 40 inch. Metric series range from 2.5 x 3 mm to 20 x 20 mm in cross-section with max outer diameter 1000 mm.

Application

- Industry Robot
- Rotary and Index Table
- Semiconductor Equipment
- Package & Beverage Filling Machine
- Radar Communication Antenna
- Satellite & Space Equipment
- Lab Testing Equipment
- Medical Equipment
- Candy & Food Machine
- Boat & Ship Equipment

Bearing Type Code Rules

K C 040 X F 0 L

Material & Seal options
K - G Cr15(AISI 52100 Steel)
No seals or shields
S - AISI 440C Stainless Steel
No seals or shields
J - G Cr15(AISI 52100 Steel)
Two seals–Nitrile rubber

Cross Section Size
3/16" 1/4" 5/16" 3/8" 1/2" 3/4" 1"

Bore Diameter
Max Bore Diameter 40"

Bearing type
A- Angular Contact Ball Bearing
C- Deep Groove Ball bearing
X– Four Point Contact Ball Bearing

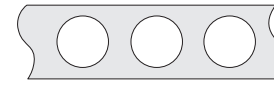
Accuracy
As per page 3

Internal Clearance
As per page 4-5

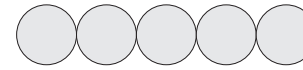
Ball Cage

P One-piece formed ring with "snap-over" pockets

R One-piece formed ring with circular pockets



F Full complement bearing



Customized products available

- Extreme temperature –40°C~260°C
- Ceramic balls are avaible.

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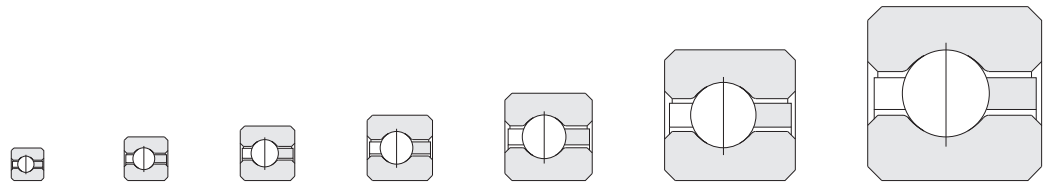
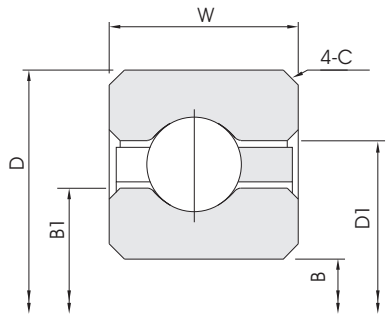
Radial Contact
Type C Deep Groove Ball bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
KAA10CL0	1.0000	1.3750	0.1875	1.141	1.234	0.015
KAA15CL0	1.5000	1.8750	0.1875	1.641	1.734	0.015
KAA17CL0	1.7500	2.1250	0.1875	1.890	1.985	0.015
KA020CP0	2.0000	2.5000	0.2500	2.188	2.313	0.025
KB020CP0	2.0000	2.6250	0.3125	2.234	2.391	0.032
KA025CP0	2.5000	3.0000	0.2500	2.688	2.813	0.025
KB025CP0	2.5000	3.1250	0.3125	2.734	2.891	0.032
KA030CP0	3.0000	3.5000	0.2500	3.188	3.313	0.025
KB030CP0	3.0000	3.6250	0.3125	3.234	3.391	0.032
KA035CP0	3.5000	4.0000	0.2500	3.688	3.813	0.025
KB035CP0	3.5000	4.1250	0.3125	3.734	3.897	0.032
KA040CP0	4.0000	4.5000	0.2500	4.188	4.313	0.025
KB040CP0	4.0000	4.6250	0.3125	4.234	4.391	0.032
KC040CP0	4.0000	4.7500	0.3750	4.281	4.469	0.040
KD040CP0	4.0000	5.0000	0.5000	4.375	4.625	0.060
KF040CP0	4.0000	5.5000	0.7500	4.563	4.938	0.080
KG040CP0	4.0000	6.0000	1.0000	4.750	5.250	0.080
KA042CP0	4.2500	4.7500	0.2500	4.438	4.563	0.025
KB042CP0	4.2500	4.8750	0.3125	4.484	4.641	0.032
KC042CP0	4.2500	5.0000	0.3750	4.531	4.719	0.040
KD042CP0	4.2500	5.2500	0.5000	4.625	4.875	0.060
KF042CP0	4.2500	5.7500	0.7500	4.813	5.188	0.080
KG042CP0	4.2500	6.2500	1.0000	5.000	5.500	0.080
KA045CP0	4.5000	5.0000	0.2500	4.688	4.813	0.025
KB045CP0	4.5000	5.1250	0.3125	4.734	4.891	0.032
KC045CP0	4.5000	5.2500	0.3750	4.781	4.969	0.040
KD045CP0	4.5000	5.5000	0.5000	4.875	5.125	0.060
KF045CP0	4.5000	6.0000	0.7500	5.063	5.438	0.080
KG045CP0	4.5000	6.5000	1.0000	5.250	5.750	0.080
KA047CP0	4.7500	5.2500	0.2500	4.938	5.063	0.025
KB047CP0	4.7500	5.3750	0.3125	4.984	5.141	0.032
KC047CP0	4.7500	5.5000	0.3750	5.031	5.219	0.040
KD047CP0	4.7500	5.7500	0.5000	5.125	5.375	0.060
KF047CP0	4.7500	6.2500	0.7500	5.313	5.688	0.080
KG047CP0	4.7500	6.7500	1.0000	5.500	6.000	0.080
KA050CP0	5.0000	5.5000	0.2500	5.188	5.313	0.025
KB050CP0	5.0000	5.6250	0.3125	5.234	5.391	0.032
KC050CP0	5.0000	5.7500	0.3750	5.281	5.469	0.040
KD050CP0	5.0000	6.0000	0.5000	5.375	5.625	0.060
KF050CP0	5.0000	6.5000	0.7500	5.563	5.938	0.080
KG050CP0	5.0000	7.0000	1.0000	5.750	6.250	0.080
KA055CP0	5.5000	6.0000	0.2500	5.688	5.813	0.025
KB055CP0	5.5000	6.1250	0.3125	5.734	5.891	0.032
KC055CP0	5.5000	6.2500	0.3750	5.781	5.969	0.04
KD055CP0	5.5000	6.5000	0.5000	5.875	6.125	0.060

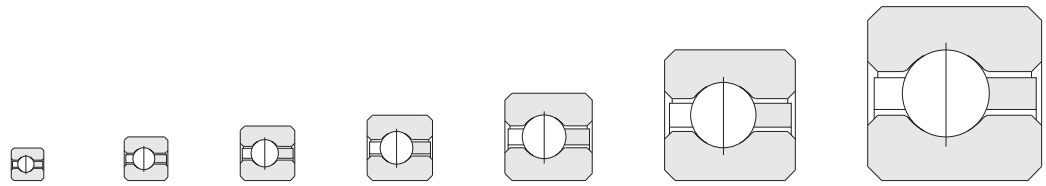


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/32	22	0.014	1,290	1,330	-	-	-	-
	3/32	30	0.018	1,780	1,560	-	-	-	-
	3/32	33	0.027	2,050	1,650	-	-	-	-
	1/8	27	0.045	3,020	2,490	-	-	-	-
	5/32	23	0.073	4,140	3,560	-	-	-	-
	1/8	33	0.059	3,690	2,710	-	-	-	-
	5/32	28	0.091	5,070	3,830	-	-	-	-
	1/8	39	0.068	4,400	2,890	-	-	-	-
	5/32	33	0.109	5,960	4,090	-	-	-	-
	1/8	45	0.082	5,070	3,070	-	-	-	-
	5/32	38	0.122	6,850	4,310	-	-	-	-
	1/8	51	0.086	5,740	3,200	-	-	-	-
	5/32	43	0.136	7,780	4,540	-	-	-	-
	3/16	35	0.204	9,340	5,740	-	-	-	-
	1/4	27	0.354	13,700	10,010	-	-	-	-
	3/8	19	0.862	23,840	17,530	-	-	-	-
	1/2	15	1.633	36,520	29,800	-	-	-	-
	1/8	54	0.091	6,090	3,250	-	-	-	-
	5/32	45	0.141	8,140	4,580	-	-	-	-
	3/16	37	0.213	9,880	5,870	-	-	-	-
	1/4	28	0.376	14,190	10,100	-	-	-	-
	3/8	20	0.907	25,090	18,100	-	-	-	-
	1/2	15	1.724	36,520	29,800	-	-	-	-
	1/8	57	0.100	6,410	3,340	-	-	-	-
	5/32	48	0.150	8,670	4,720	-	-	-	-
	3/16	39	0.218	10,410	6,010	-	-	-	-
	1/4	30	0.399	15,210	10,450	-	-	-	-
	3/8	21	0.953	26,380	18,730	-	-	-	-
	1/2	16	1.814	38,970	31,140	-	-	-	-
	1/8	60	0.104	6,760	3,380	-	-	-	-
	5/32	50	0.154	9,030	4,760	-	-	-	-
	3/16	41	0.227	10,940	6,090	-	-	-	-
	1/4	31	0.426	15,700	10,500	-	-	-	-
	3/8	22	0.998	27,620	19,170	-	-	-	-
	1/2	17	1.860	41,370	32,430	-	-	-	-
	1/8	63	0.109	7,070	3,430	-	-	-	-
	5/32	53	0.172	9,560	4,890	-	-	-	-
	3/16	43	0.263	11,520	6,180	-	-	-	-
	1/4	33	0.454	16,730	10,810	-	-	-	-
	3/8	23	1.043	28,870	19,480	-	-	-	-
	1/2	18	1.950	43,810	33,670	-	-	-	--
	1/8	69	0.113	7,780	3,560	-	-	--	-
	5/32	58	0.186	10,500	5,030	-	-	-	-
	3/16	47	0.268	12,590	6,410	-	-	-	-
	1/4	36	0.481	18,240	11,170				

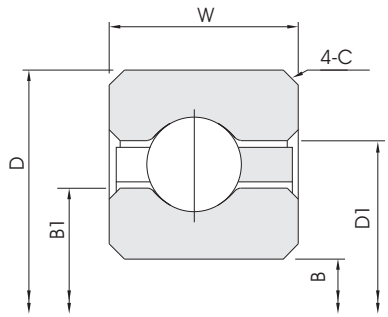
SNBO
Innovation in Motion

Radial Contact
Type C Deep Groove Ball bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
KF055CP0	5.5000	7.0000	0.7500	6.063	6.438	0.080
KG055CP0	5.5000	7.5000	1.0000	6.250	6.750	0.080
KA060CP0	6.0000	6.5000	0.2500	6.188	6.313	0.025
KB060CP0	6.0000	6.6250	0.3125	6.234	6.391	0.032
KC060CP0	6.0000	6.7500	0.3750	6.281	6.469	0.040
KD060CP0	6.0000	7.0000	0.5000	6.375	6.625	0.060
KF060CP0	6.0000	7.5000	0.7500	6.563	6.938	0.080
KG060CP0	6.0000	8.0000	1.0000	6.750	7.250	0.080
KA065CP0	6.5000	7.0000	0.2500	6.688	6.813	0.025
KB065CP0	6.5000	7.1250	0.3125	6.734	6.891	0.032
KC065CP0	6.5000	7.2500	0.3750	6.781	6.969	0.040
KD065CP0	6.5000	7.5000	0.5000	6.875	7.125	0.060
KF065CP0	6.5000	8.0000	0.7500	7.063	7.438	0.080
KG065CP0	6.5000	8.5000	1.0000	7.250	7.750	0.080
KA070CP0	7.0000	7.5000	0.2500	7.188	7.313	0.025
KB070CP0	7.0000	7.6250	0.3125	7.234	7.391	0.032
KC070CP0	7.0000	7.7500	0.3750	7.281	7.469	0.040
KD070CP0	7.0000	8.0000	0.5000	7.375	7.625	0.060
KF070CP0	7.0000	8.5000	0.7500	7.563	7.938	0.080
KG070CP0	7.0000	9.0000	1.0000	7.750	8.250	0.080
KA075CP0	7.5000	8.0000	0.2500	7.688	7.813	0.025
KB075CP0	7.5000	8.1250	0.3125	7.734	7.891	0.032
KC075CP0	7.5000	8.2500	0.3750	7.781	7.969	0.040
KD075CP0	7.5000	8.5000	0.5000	7.875	8.125	0.060
KF075CP0	7.5000	9.0000	0.7500	8.063	8.438	0.080
KG075CP0	7.5000	9.5000	1.0000	8.250	8.750	0.080
KA080CP0	8.0000	8.5000	0.2500	8.188	8.313	0.025
KB080CP0	8.0000	8.6250	0.3125	8.234	8.391	0.032
KC080CP0	8.0000	8.7500	0.3750	8.281	8.469	0.040
KD080CP0	8.0000	9.0000	0.5000	8.375	8.625	0.060
KF080CP0	8.0000	9.5000	0.7500	8.563	8.938	0.080
KG080CP0	8.0000	10.0000	1.0000	8.750	9.250	0.080
KA090CP0	9.0000	9.5000	0.2500	9.188	9.313	0.025
KB090CP0	9.0000	9.6250	0.3125	9.234	9.391	0.032
KC090CP0	9.0000	9.7500	0.3750	9.281	9.469	0.040
KD090CP0	9.0000	10.0000	0.5000	9.375	9.625	0.060
KF090CP0	9.0000	10.5000	0.7500	9.563	9.938	0.080
KG090CP0	9.0000	11.0000	1.0000	9.750	10.250	0.080
KA100CP0	10.0000	10.5000	0.2500	10.188	10.313	0.025
KB100CP0	10.0000	10.6250	0.3125	10.234	10.391	0.032
KC100CP0	10.0000	10.7500	0.3750	10.281	10.469	0.040
KD100CP0	10.0000	11.0000	0.5000	10.375	10.625	0.060
KF100CP0	10.0000	11.5000	0.7500	10.563	10.938	0.080
KG100CP0	10.0000	12.0000	1.0000	10.750	11.250	0.080
KA110CP0	11.0000	11.5000	0.2500	11.188	11.313	0.025

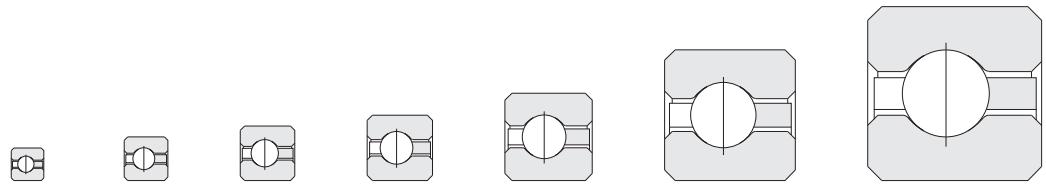


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/8	25	1.134	31,360	20,190	-	-	-	-
	1/2	19	2.132	46,260	34,920	-	-	-	-
	1/8	75	0.127	8,450	3,690	-	-	-	-
	5/32	63	0.200	11,390	5,200	-	-	-	-
	3/16	51	0.286	13,660	6,630	-	-	-	-
	1/4	39	0.526	19,790	11,480	-	-	-	-
	3/8	27	1.225	33,900	20,730	-	-	-	-
	1/2	21	2.313	51,110	37,320	-	-	-	-
	1/8	81	0.136	9,120	3,780	-	-	-	-
	5/32	68	0.213	12,280	5,340	-	-	-	-
	3/16	55	0.308	14,720	6,810	-	-	-	-
	1/4	42	0.553	21,310	11,790	-	-	-	-
	3/8	29	1.315	36,390	21,310	-	-	-	-
	1/2	22	2.449	53,560	37,900	-	-	-	-
	1/8	87	0.141	9,790	3,870	-	-	-	-
	5/32	73	0.227	13,210	5,520	-	-	-	-
	3/16	59	0.331	15,790	6,980	-	-	-	-
	1/4	45	0.594	22,820	12,140	-	-	-	-
	3/8	31	1.451	38,920	21,890	-	-	-	-
	1/2	24	2.631	58,410	39,500	-	-	-	-
	1/8	93	0.154	10,450	3,960	-	-	-	-
	5/32	78	0.240	14,100	5,690	-	-	-	-
	3/16	63	0.354	16,860	7,120	-	-	-	-
	1/4	48	0.640	24,330	12,460	-	-	-	-
	3/8	33	1.542	41,410	22,420	-	-	-	-
	1/2	25	2.767	60,850	39,860	-	-	-	-
	1/8	99	0.172	11,120	4,050	-	-	-	-
	5/32	83	0.259	14,990	5,690	-	-	-	-
	3/16	67	0.381	17,930	7,340	-	-	-	-
	1/4	51	0.694	25,840	12,720	-	-	-	-
	3/8	35	1.588	43,950	22,860	-	-	-	-
	1/2	27	2.948	65,700	41,370	-	-	-	-
	1/8	111	0.200	12,500	4,180	-	-	-	-
	5/32	93	0.299	16,810	5,920	-	-	-	-
	3/16	75	0.426	20,060	7,700	-	-	-	-
	1/4	57	0.780	28,910	13,210	-	-	-	-
	3/8	39	1.769	48,930	23,840	-	-	-	-
	1/2	30	3.266	73,040	43,240	-	-	-	-
	1/8	123	0.227	13,830	4,400	-	-	-	-
	5/32	103	0.331	18,640	6,230	-	-	-	-
	3/16	83	0.481	22,200	7,920	-	-	-	-
	1/4	63	0.853	31,940	13,660	-	-	-	-
	3/8	43	1.950	53,960	24,690	-	-	-	-
	1/2	33	3.583	80,330	44,660	-	-	-	-
	1/8	135	0.236	15,170	4,580	-	-	-	-

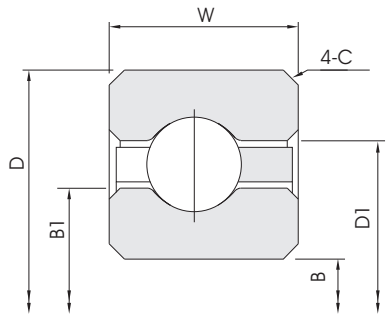
SNBO
Innovation in Motion

Radial Contact
Type C Deep Groove Ball bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
KB110CP0	11.0000	11.6250	0.3125	11.234	11.391	0.032
KC110CP0	11.0000	11.7500	0.3750	11.281	11.469	0.040
KD110CP0	11.0000	12.0000	0.5000	11.375	11.625	0.060
KF110CP0	11.0000	12.5000	0.7500	11.563	11.938	0.080
KG110CP0	11.0000	13.0000	1.0000	11.750	12.250	0.080
KA120CP0	12.0000	12.5000	0.2500	12.188	12.313	0.025
KB120CP0	12.0000	12.6250	0.3125	12.234	12.391	0.032
KC120CP0	12.0000	12.7500	0.3750	12.281	12.469	0.040
KD120CP0	12.0000	13.0000	0.5000	12.375	12.625	0.060
KF120CP0	12.0000	13.5000	0.7500	12.563	12.938	0.080
KG120CP0	12.0000	14.0000	1.0000	12.750	13.250	0.080
KB140CP0	14.0000	14.6250	0.3125	14.234	14.391	0.032
KC140CP0	14.0000	14.7500	0.3750	14.281	14.469	0.040
KD140CP0	14.0000	15.0000	0.5000	14.375	14.625	0.060
KF140CP0	14.0000	15.5000	0.7500	14.563	14.938	0.080
KG140CP0	14.0000	16.0000	1.0000	14.750	15.250	0.080
KB160CP0	16.0000	16.6250	0.3125	16.234	16.391	0.032
KC160CP0	16.0000	16.7500	0.3750	16.281	16.469	0.040
KD160CP0	16.0000	17.0000	0.5000	16.375	16.625	0.060
KF160CP0	16.0000	17.5000	0.7500	16.563	16.938	0.080
KG160CP0	16.0000	18.0000	1.0000	16.750	17.250	0.080
KB180CP0	18.0000	18.6250	0.3125	18.234	18.391	0.032
KC180CP0	18.0000	18.7500	0.3750	18.281	18.469	0.040
KD180CP0	18.0000	19.0000	0.5000	18.375	18.625	0.060
KF180CP0	18.0000	19.5000	0.7500	18.563	18.938	0.080
KG180CP0	18.0000	20.0000	1.0000	18.750	19.250	0.080
KB200CP0	20.0000	20.6250	0.3125	20.234	20.391	0.032
KC200CP0	20.0000	20.7500	0.3750	20.281	20.469	0.040
KD200CP0	20.0000	21.0000	0.5000	20.375	20.625	0.060
KF200CP0	20.0000	21.5000	0.7500	20.563	20.938	0.080
KG200CP0	20.0000	22.0000	1.0000	20.750	21.250	0.080
KC250CP0	25.0000	25.7500	0.3750	25.281	25.469	0.040
KD250CP0	25.0000	26.0000	0.5000	25.375	25.625	0.060
KF250CP0	25.0000	26.5000	0.7500	25.563	25.938	0.080
KG250CP0	25.0000	27.0000	1.0000	25.750	26.250	0.080
KG275CP0	27.5000	29.5000	1.0000	28.250	28.750	0.080
KC300CP0	30.0000	30.7500	0.3750	30.281	30.469	0.040
KD300CP0	30.0000	31.0000	0.5000	30.375	30.625	0.060
KF300CP0	30.0000	31.5000	0.7500	30.563	30.938	0.080
KG300CP0	30.0000	32.0000	1.0000	30.750	31.250	0.080
KG325CP0	32.5000	34.5000	1.0000	33.250	33.750	0.080
KF350CP0	35.0000	36.5000	0.7500	35.563	35.938	0.080
KG350CP0	35.0000	37.0000	1.0000	35.750	36.250	0.080
KG375CP0	37.5000	39.5000	1.0000	38.250	38.750	0.080
KF400CP0	40.0000	41.5000	0.7500	40.563	40.938	0.080

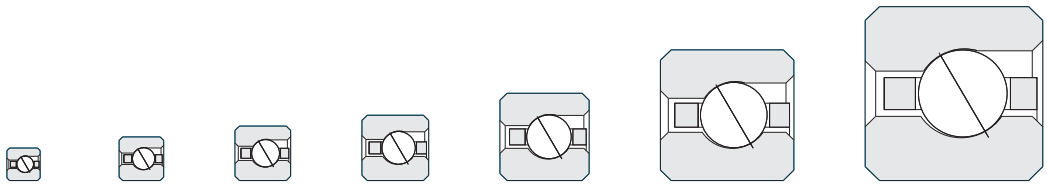


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	5/32	113	0.340	20,420	6,510	-	-	-	-
	3/16	91	0.526	24,330	8,360	-	-	-	-
	1/4	69	0.934	35,010	14,150	-	-	-	-
	3/8	47	2.177	58,980	25,950	-	-	-	-
	1/2	36	3.901	87,630	46,080	-	-	-	-
	1/8	147	0.254	16,550	4,800	-	-	-	-
	5/32	123	0.376	22,240	6,850	-	-	-	-
	3/16	99	0.567	26,470	8,780	-	-	-	-
	1/4	75	1.021	38,030	14,770	-	-	-	-
	3/8	51	2.359	64,010	27,160	-	-	-	-
	1/2	39	4.218	94,930	47,550	-	-	-	-
	5/32	143	0.476	25,840	7,470	-	-	-	-
	3/16	115	0.689	30,740	9,580	-	-	-	-
	1/4	87	1.238	44,130	15,390	-	-	-	-
	3/8	59	2.722	74,060	29,450	-	-	-	-
	1/2	45	4.899	109,520	50,180	-	-	-	-
	5/32	163	0.544	29,450	8,060	-	-	-	-
	3/16	131	0.785	35,050	10,320	-	-	-	-
	1/4	99	1.406	50,220	16,410	-	-	-	-
	3/8	67	3.221	84,070	31,600	-	-	-	-
	1/2	51	5.579	124,150	52,580	-	-	-	-
	5/32	183	0.612	33,090	8,610	-	-	-	-
	3/16	147	0.880	39,320	11,020	-	-	-	-
	1/4	111	1.579	56,270	17,490	-	-	-	-
	3/8	75	3.583	94,120	33,620	-	-	-	-
	1/2	57	6.214	138,740	55,010	-	-	-	-
	5/32	203	0.680	36,700	9,130	-	-	-	-
	3/16	163	0.980	43,590	11,680	-	-	-	-
	1/4	123	1.746	62,360	18,520	-	-	-	-
	3/8	83	4.037	104,180	35,520	-	-	-	-
	1/2	63	7.167	153,330	58,020	-	-	-	-
	3/16	203	1.220	54,270	13,180	-	-	-	-
	1/4	153	2.173	77,580	20,860	-	-	-	-
	3/8	103	4.944	129,270	39,870	-	-	-	-
	1/2	78	8.845	189,850	64,900	-	-	-	-
	1/2	86	9.761	208,110	67,955	-	-	-	-
	3/16	243	1.456	64,990	14,500	-	-	-	-
	1/4	183	2.599	92,790	22,920	-	-	-	-
	3/8	123	5.897	154,350	43,720	-	-	-	-
	1/2	93	10.569	226,370	71,010	-	-	-	-
	1/2	101	11.441	244,630	73,747	-	-	-	-
	3/8	143	6.849	179,490	47,160	-	-	-	-
	1/2	108	12.292	262,890	76,490	-	-	-	-
	1/2	116	13.166	281,150	78,960	-	-	-	-
	3/8	163	7.802	204,570	50,270	-	-	-	-

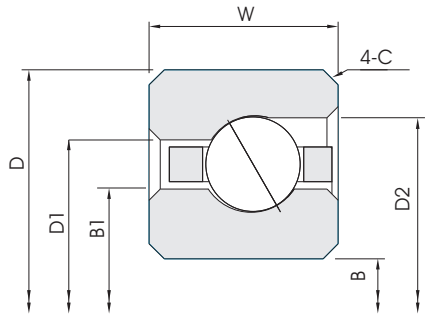
SNIBO
Innovation in Motion

Angular Contact
Type A Angular Contact Ball Bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)						
	B	D	W	Land Diameter			C
				B1	D1	D2	
KAA10AG0	1.0000	1.3750	0.1875	1.141	1.234	1.235	0.015
KAA15AG0	1.5000	1.8750	0.1875	1.641	1.734	1.735	0.015
KAA17AG0	1.7500	2.1250	0.1875	1.890	1.985	2.024	0.015
KA020AR0	2.0000	2.5000	0.2500	2.188	2.313	2.375	0.025
KB020AR0	2.0000	2.6250	0.3125	2.234	2.391	2.469	0.032
KA025AR0	2.5000	3.0000	0.2500	2.688	2.813	2.875	0.025
KB025AR0	2.5000	3.1250	0.3125	2.734	2.891	2.969	0.032
KA030AR0	3.0000	3.5000	0.2500	3.188	3.313	3.375	0.025
KB030AR0	3.0000	3.6250	0.3125	3.234	3.391	3.469	0.032
KA035AR0	3.5000	4.0000	0.2500	3.688	3.813	3.875	0.025
KB035AR0	3.5000	4.1250	0.3125	3.734	3.891	3.969	0.032
KA040AR0	4.0000	4.5000	0.2500	4.188	4.313	4.375	0.025
KB040AR0	4.0000	4.6250	0.3125	4.234	4.391	4.469	0.032
KC040AR0	4.0000	4.7500	0.3750	4.281	4.469	4.563	0.040
KD040AR0	4.0000	5.0000	0.5000	4.375	4.625	4.750	0.060
KF040AR0	4.0000	5.5000	0.7500	4.563	4.938	5.125	0.080
KG040AR0	4.0000	6.0000	1.0000	4.750	5.250	5.500	0.080
KA042AR0	4.2500	4.7500	0.2500	4.438	4.563	4.625	0.025
KB042AR0	4.2500	4.8750	0.3125	4.484	4.641	4.719	0.032
KC042AR0	4.2500	5.0000	0.3750	4.531	4.719	4.813	0.040
KD042AR0	4.2500	5.2500	0.5000	4.625	4.875	5.000	0.060
KF042AR0	4.2500	5.7500	0.7500	4.813	5.188	5.375	0.080
KG042AR0	4.2500	6.2500	1.0000	5.000	5.500	5.750	0.080
KA045AR0	4.5000	5.0000	0.2500	4.688	4.813	4.875	0.025
KB045AR0	4.5000	5.1250	0.3125	4.734	4.891	4.969	0.032
KC045AR0	4.5000	5.2500	0.3750	4.781	4.969	5.063	0.040
KD045AR0	4.5000	5.5000	0.5000	4.875	5.125	5.250	0.060
KF045AR0	4.5000	6.0000	0.7500	5.063	5.438	5.625	0.080
KG045AR0	4.5000	6.5000	1.0000	5.250	5.750	6.000	0.080
KA047AR0	4.7500	5.2500	0.2500	4.938	5.063	5.125	0.025
KB047AR0	4.7500	5.3750	0.3125	4.984	5.141	5.219	0.032
KC047AR0	4.7500	5.5000	0.3750	5.031	5.219	5.313	0.040
KD047AR0	4.7500	5.7500	0.5000	5.125	5.375	5.500	0.060
KF047AR0	4.7500	6.2500	0.7500	5.313	5.688	5.875	0.080
KG047AR0	4.7500	6.7500	1.0000	5.500	6.000	6.250	0.080
KA050AR0	5.0000	5.5000	0.2500	5.188	5.313	5.375	0.025
KB050AR0	5.0000	5.6250	0.3125	5.234	5.391	5.469	0.032
KC050AR0	5.0000	5.7500	0.3750	5.281	5.469	5.563	0.040
KD050AR0	5.0000	6.0000	0.5000	5.375	5.625	5.750	0.060
KF050AR0	5.0000	6.5000	0.7500	5.563	5.938	6.125	0.080
KG050AR0	5.0000	7.0000	1.0000	5.750	6.250	6.500	0.080
KA055AR0	5.5000	6.0000	0.2500	5.688	5.813	5.875	0.025
KB055AR0	5.5000	6.1250	0.3125	5.734	5.891	5.969	0.032
KC055AR0	5.5000	6.2500	0.3750	5.781	5.969	6.063	0.040
KD055AR0	5.5000	6.5000	0.5000	5.875	6.125	6.250	0.060

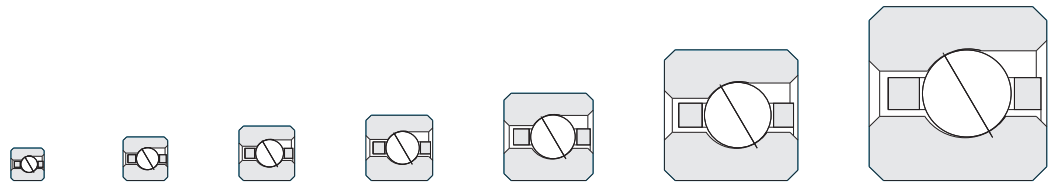


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Circular Pocket Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/32	28	0.014	1,510	1,470	4,310	4,270	-	-
	3/32	40	0.018	2,140	1,690	6,140	4,890	-	-
	3/32	44	0.027	2,360	1,730	6,760	4,990	-	-
	1/8	36	0.045	3,510	2,670	10,140	7,700	-	-
	5/32	31	0.073	4,850	3,780	14,010	10,940	-	-
	1/8	44	0.059	4,270	2,850	12,370	8,270	-	-
	5/32	38	0.091	5,960	4,090	17,170	11,920	-	-
	1/8	52	0.068	5,070	3,020	14,630	8,810	-	-
	5/32	44	0.109	6,890	4,310	19,880	12,460	-	-
	1/8	60	0.082	5,830	3,200	16,860	9,210	-	-
	5/32	51	0.122	7,960	4,540	23,040	13,210	-	-
	1/8	68	0.086	6,630	3,340	19,130	9,700	-	-
	5/32	58	0.136	9,070	4,800	26,200	13,920	-	-
	3/16	49	0.204	11,340	6,270	32,740	18,150	-	-
	1/4	36	0.354	15,790	10,560	45,640	26,780	-	-
	3/8	26	0.862	28,250	19,350	81,580	56,140	-	-
	1/2	20	1.633	42,170	32,650	121,700	94,700	-	-
	1/8	72	0.091	7,030	3,430	20,240	9,960	-	-
	5/32	61	0.141	9,560	4,850	27,580	14,100	-	-
	3/16	52	0.213	12,050	6,410	34,790	18,590	-	-
	1/4	38	0.376	16,680	10,720	48,170	31,090	-	-
	3/8	27	0.907	29,360	19,530	84,740	56,670	-	-
	1/2	21	1.724	44,260	33,720	127,800	97,820	-	-
	1/8	76	0.100	7,380	3,470	21,400	10,050	-	-
	5/32	64	0.150	10,010	4,980	28,910	14,410	-	-
	3/16	55	0.218	12,720	6,540	36,790	18,950	-	-
	1/4	40	0.399	17,570	10,940	50,710	31,760	-	-
	3/8	29	0.953	31,540	20,240	91,010	58,720	-	-
	1/2	22	1.814	46,390	34,790	133,890	100,930	-	-
	1/8	80	0.104	7,780	3,560	22,510	10,280	-	-
	5/32	68	0.154	10,630	5,070	30,740	14,630	-	-
	3/16	58	0.227	13,430	6,670	38,790	19,310	-	-
	1/4	42	0.426	18,460	11,170	53,250	32,380	-	-
	3/8	30	0.998	32,610	20,510	94,120	59,520	-	-
	1/2	23	1.860	48,490	35,850	139,940	103,950	-	-
	1/8	84	0.109	8,180	3,600	23,620	10,500	-	-
	5/32	71	0.172	11,120	5,160	32,070	14,900	-	-
	3/16	61	0.263	14,150	6,850	40,790	19,790	-	-
	1/4	44	0.454	19,310	11,340	55,780	32,920	-	-
	3/8	31	1.043	33,670	20,680	97,280	59,960	-	-
	1/2	24	1.950	50,580	36,880	146,040	106,940	-	-
	1/8	92	0.113	8,990	3,690	25,890	10,720	-	-
	5/32	78	0.186	12,190	5,340	35,230	15,480	-	-
	3/16	66	0.268	15,300	6,940	44,130	20,190	-	-
	1/4	48	0.481	21,080	11,740	60,850	34,070	-	-

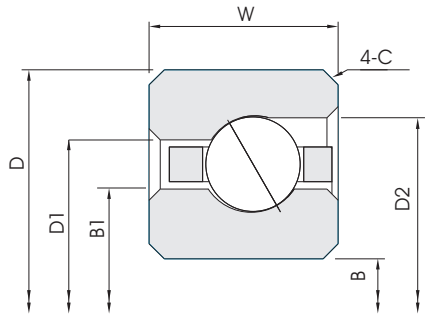
SNBO
Innovation in Motion

Angular Contact
Type A Angular Contact Ball Bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)						
	B	D	W	Land Diameter			C
				B1	D1	D2	
KF055AR0	5.5000	7.0000	0.7500	6.063	6.438	6.625	0.080
KG055AR0	5.5000	7.5000	1.0000	6.250	6.750	7.000	0.080
KA060AR0	6.0000	6.5000	0.2500	6.188	6.313	6.375	0.025
KB060AR0	6.0000	6.6250	0.3125	6.234	6.391	6.469	0.032
KC060AR0	6.0000	6.7500	0.3750	6.281	6.469	6.563	0.040
KD060AR0	6.0000	7.0000	0.5000	6.375	6.625	6.750	0.060
KF060AR0	6.0000	7.5000	0.7500	6.563	6.938	7.125	0.080
KG060AR0	6.0000	8.0000	1.0000	6.750	7.250	7.500	0.080
KA065AR0	6.5000	7.0000	0.2500	6.688	6.813	6.875	0.025
KB065AR0	6.5000	7.1250	0.3125	6.734	6.891	6.969	0.032
KC065AR0	6.5000	7.2500	0.3750	6.781	6.969	7.063	0.040
KD065AR0	6.5000	7.5000	0.5000	6.875	7.125	7.250	0.060
KF065AR0	6.5000	8.0000	0.7500	7.063	7.438	7.625	0.080
KG065AR0	6.5000	8.5000	1.0000	7.250	7.750	8.000	0.080
KA070AR0	7.0000	7.5000	0.2500	7.188	7.313	7.375	0.025
KB070AR0	7.0000	7.6250	0.3125	7.234	7.391	7.469	0.032
KC070AR0	7.0000	7.7500	0.3750	7.281	7.469	7.563	0.040
KD070AR0	7.0000	8.0000	0.5000	7.375	7.625	7.750	0.060
KF070AR0	7.0000	8.5000	0.7500	7.563	7.938	8.125	0.080
KG070AR0	7.0000	9.0000	1.0000	7.750	8.250	8.500	0.080
KA075AR0	7.5000	8.0000	0.2500	7.688	7.813	7.875	0.025
KB075AR0	7.5000	8.1250	0.3125	7.734	7.891	7.969	0.032
KC075AR0	7.5000	8.2500	0.3750	7.781	7.969	8.063	0.040
KD075AR0	7.5000	8.5000	0.5000	7.875	8.125	8.250	0.060
KF075AR0	7.5000	9.0000	0.7500	8.063	8.438	8.625	0.080
KG075AR0	7.5000	9.5000	1.0000	8.250	8.750	9.000	0.080
KA080AR0	8.0000	8.5000	0.2500	8.188	8.313	8.375	0.025
KB080AR0	8.0000	8.6250	0.3125	8.234	8.391	8.469	0.032
KC080AR0	8.0000	8.7500	0.3750	8.281	8.469	8.563	0.040
KD080AR0	8.0000	9.0000	0.5000	8.375	8.625	8.750	0.060
KF080AR0	8.0000	9.5000	0.7500	8.563	8.938	9.125	0.080
KG080AR0	8.0000	10.0000	1.0000	8.750	9.250	9.500	0.080
KA090AR0	9.0000	9.5000	0.2500	9.188	9.313	9.375	0.025
KB090AR0	9.0000	9.6250	0.3125	9.234	9.391	9.469	0.032
KC090AR0	9.0000	9.7500	0.3750	9.281	9.469	9.563	0.040
KD090AR0	9.0000	10.0000	0.5000	9.375	9.625	9.750	0.060
KF090AR0	9.0000	10.5000	0.7500	9.563	9.938	10.125	0.080
KG090AR0	9.0000	11.0000	1.0000	9.750	10.250	10.500	0.080
KA100AR0	10.0000	10.5000	0.2500	10.188	10.313	10.375	0.025
KB100AR0	10.0000	10.6250	0.3125	10.234	10.391	10.469	0.032
KC100AR0	10.0000	10.7500	0.3750	10.281	10.469	10.563	0.040
KD100AR0	10.0000	11.0000	0.5000	10.375	10.625	10.750	0.060
KF100AR0	10.0000	11.5000	0.7500	10.563	10.938	11.125	0.080
KG100AR0	10.0000	12.0000	1.0000	10.750	11.250	11.500	0.080
KA110AR0	11.0000	11.5000	0.2500	11.188	11.313	11.375	0.025



Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Circular Pocket Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/8	34	1.134	36,960	21,440	106,670	62,190	-	-
	1/ 2	26	2.132	54,800	38,300	158,220	111,030	-	-
	1/8	100	0.127	9,740	3,830	28,110	11,120	-	-
	5/32	85	0.200	13,300	5,520	38,390	16,010	-	-
	3/16	72	0.286	16,680	7,210	48,130	20,860	-	-
	1/4	52	0.526	22,820	12,100	65,920	35,050	-	-
	3/8	37	1.225	40,210	22,290	116,100	64,630	-	-
	1/2	28	2.313	59,030	39,410	170,370	114,320	-	-
	1/8	108	0.136	10,540	3,960	30,380	11,480	-	-
	5/32	91	0.213	14,230	5,600	41,100	16,240	-	-
	3/16	78	0.308	18,060	7,430	52,130	21,480	-	-
	1/4	56	0.553	24,600	12,370	70,990	35,900	-	-
	3/8	40	1.315	43,460	22,860	125,530	66,370	-	-
	1/2	30	2.449	63,250	40,520	182,560	117,480	-	-
	1/8	116	0.141	11,300	4,000	32,650	11,570	-	-
	5/32	98	0.227	15,350	5,780	44,300	16,730	-	-
	3/16	83	0.331	19,220	7,650	55,470	22,150	-	-
	1/4	60	0.594	26,330	12,680	76,060	36,740	-	-
	3/8	43	1.451	46,750	23,530	134,910	68,280	-	-
	1/2	32	2.631	67,440	41,680	194,740	120,810	-	-
	1/8	124	0.154	12,100	4,090	34,870	11,830	-	-
	5/32	105	0.240	16,460	5,920	47,460	17,170	-	-
	3/16	89	0.354	20,600	7,780	59,520	22,640	-	-
	1/4	64	0.640	28,110	13,080	81,140	37,900	-	-
	3/8	45	1.542	48,930	23,930	141,190	69,350	-	-
	1/2	34	2.767	71,660	42,530	206,890	123,260	-	-
	1/8	132	0.172	12,860	4,270	37,140	12,320	-	-
	5/32	112	0.259	17,530	6,050	50,620	17,570	-	-
	3/16	95	0.381	22,020	8,010	63,520	23,180	-	-
	1/4	68	0.694	29,850	13,300	86,210	38,570	-	-
	3/8	48	1.588	52,180	24,550	150,620	71,260	-	-
	1/2	36	2.948	75,890	43,590	219,070	126,460	-	-
	1/8	148	0.200	14,410	4,400	41,640	12,720	-	-
	5/32	125	0.299	19,570	6,270	56,490	18,150	-	-
	3/16	106	0.426	24,550	8,270	70,860	24,020	-	-
	1/4	76	0.780	33,360	13,790	96,350	40,030	-	-
	3/8	54	1.769	58,670	25,710	169,430	74,550	-	-
	1/2	40	3.266	84,340	45,330	243,410	131,400	-	-
	1/8	164	0.227	15,970	4,580	46,130	13,340	-	-
	5/32	139	0.331	21,750	6,580	62,810	19,080	-	-
	3/16	118	0.481	27,310	8,640	78,870	24,780	-	-
	1/4	84	0.853	36,880	14,410	106,490	41,770	-	-
	3/8	59	1.950	64,140	26,600	185,130	77,090	-	-
	1/2	44	3.583	92,750	46,970	267,740	136,200	-	
	1/8	180	0.236	17,530	4,770	50,620	13,790	-	

SNBO
Innovation in Motion

Angular Contact
Type A Angular Contact Ball Bearing

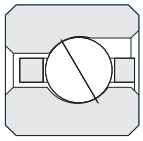

KAA
3/16"

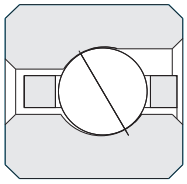

KA
1/4"


KB
5/16"

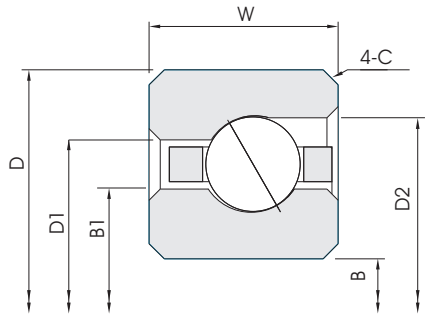

KC
3/8"


KD
1/2"


KF
3/4"


KG
1"

Bearing Type	Dimension(in)						
	B	D	W	Land Diameter			C
				B1	D1	D2	
KB110AR0	11.0000	11.6250	0.3125	11.234	11.391	11.469	0.032
KC110AR0	11.0000	11.7500	0.3750	11.281	11.469	11.563	0.040
KD110AR0	11.0000	12.0000	0.5000	11.375	11.625	11.750	0.060
KF110AR0	11.0000	12.5000	0.7500	11.563	11.938	12.125	0.080
KG110AR0	11.0000	13.0000	1.0000	11.750	12.250	12.500	0.080
KA120AR0	12.0000	12.5000	0.2500	12.188	12.313	12.375	0.025
KB120AR0	12.0000	12.6250	0.3125	12.234	12.391	12.469	0.032
KC120AR0	12.0000	12.7500	0.3750	12.281	12.469	12.563	0.040
KD120AR0	12.0000	13.0000	0.5000	12.375	12.625	12.750	0.060
KF120AR0	12.0000	13.5000	0.7500	12.563	12.938	13.125	0.080
KG120AR0	12.0000	14.0000	1.0000	12.750	13.250	13.500	0.080
KB140AR0	14.0000	14.6250	0.3125	14.234	14.391	14.469	0.032
KC140AR0	14.0000	14.7500	0.3750	14.281	14.469	14.563	0.040
KD140AR0	14.0000	15.0000	0.5000	14.375	14.625	14.750	0.060
KF140AR0	14.0000	15.5000	0.7500	14.563	14.938	15.125	0.080
KG140AR0	14.0000	16.0000	1.0000	14.750	15.250	15.500	0.080
KB160AR0	16.0000	16.6250	0.3125	16.234	16.391	16.469	0.032
KC160AR0	16.0000	16.7500	0.3750	16.281	16.469	16.563	0.040
KD160AR0	16.0000	17.0000	0.5000	16.375	16.625	16.750	0.060
KF160AR0	16.0000	17.5000	0.7500	16.563	16.938	17.125	0.080
KG160AR0	16.0000	18.0000	1.0000	16.750	17.250	17.500	0.080
KB180AR0	18.0000	18.6250	0.3125	18.234	18.391	18.469	0.032
KC180AR0	18.0000	18.7500	0.3750	18.281	18.469	18.563	0.040
KD180AR0	18.0000	19.0000	0.5000	18.375	18.625	18.750	0.060
KF180AR0	18.0000	19.5000	0.7500	18.563	18.938	19.125	0.080
KG180AR0	18.0000	20.0000	1.0000	18.750	19.250	19.500	0.080
KB200AR0	20.0000	20.6250	0.3125	20.234	20.391	20.469	0.032
KC200AR0	20.0000	20.7500	0.3750	20.281	20.469	20.563	0.040
KD200AR0	20.0000	21.0000	0.5000	20.375	20.625	20.750	0.060
KF200AR0	20.0000	21.5000	0.7500	20.563	20.938	21.125	0.080
KG200AR0	20.0000	22.0000	1.0000	20.750	21.250	21.500	0.080
KC250AR0	25.0000	25.7500	0.3750	25.281	25.469	25.563	0.040
KD250AR0	25.0000	26.0000	0.5000	25.375	25.625	25.750	0.060
KF250AR0	25.0000	26.5000	0.7500	25.563	25.938	26.125	0.080
KG250AR0	25.0000	27.0000	1.0000	25.750	26.250	26.500	0.080
KG275AR0	27.5000	29.5000	1.0000	28.243	28.757	29.000	0.080
KC300AR0	30.0000	30.7500	0.3750	30.281	30.469	30.563	0.040
KD300AR0	30.0000	31.0000	0.5000	30.375	30.625	30.750	0.060
KF300AR0	30.0000	31.5000	0.7500	30.563	30.938	31.125	0.080
KG300AR0	30.0000	32.0000	1.0000	30.750	31.250	31.500	0.080
KG325AR0	32.5000	34.5000	1.0000	33.242	33.758	34.000	0.080
KF350AR0	35.0000	36.5000	0.7500	35.563	35.938	36.125	0.080
KG350AR0	35.0000	37.0000	1.0000	35.750	36.250	36.500	0.080
KG375AR0	37.5000	39.5000	1.0000	38.242	38.758	39.000	0.080
KF400AR0	40.0000	41.5000	0.7500	40.563	40.938	41.125	0.080

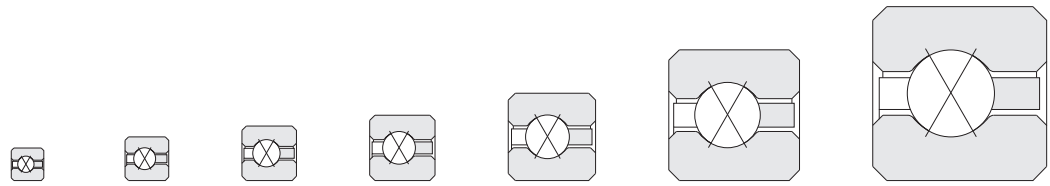


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Circular Pocket Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	5/32	152	0.340	23,800	6,850	68,680	19,350	-	-
	3/16	129	0.526	29,890	9,110	86,250	25,710	-	-
	1/4	92	0.934	40,390	14,720	116,630	42,700	-	-
	3/8	65	2.177	70,640	27,700	203,950	79,490	-	-
	1/2	48	3.901	101,200	48,570	292,070	140,830	-	-
	1/8	196	0.254	19,080	5,020	55,110	14,230	-	-
	5/32	166	0.376	25,980	7,220	75,000	20,060	-	-
	3/16	140	0.567	32,430	9,550	93,590	26,600	-	-
	1/4	100	1.021	43,900	15,260	126,770	44,260	-	-
	3/8	70	2.359	76,060	28,860	219,650	81,580	-	-
	1/2	52	4.218	109,600	49,950	316,450	144,880	-	-
	5/32	192	0.476	30,070	7,860	86,740	21,530	-	-
	3/16	163	0.689	37,770	10,440	108,980	28,160	-	-
	1/4	116	1.238	50,930	15,930	147,060	45,990	-	-
	3/8	81	2.722	88,030	31,330	254,170	86,700	-	-
	1/2	60	4.899	126,460	52,360	365,110	151,910	-	-
	5/32	219	0.544	34,300	8,480	98,970	22,910	-	-
	3/16	186	0.785	43,060	11,270	124,330	29,940	-	-
	1/4	132	1.406	57,960	17,150	167,340	49,060	-	-
	3/8	92	3.221	100,000	33,640	288,650	90,340	-	-
	1/2	68	5.579	143,320	54,980	413,770	159,470	-	-
	5/32	246	0.612	38,520	9,070	111,160	24,510	-	-
	3/16	209	0.880	48,400	12,040	139,720	32,380	-	-
	1/4	148	1.579	64,990	18,300	187,630	50,670	-	-
	3/8	104	3.583	113,030	36,040	326,320	94,350	-	-
	1/2	76	6.214	160,220	57,370	462,620	165,610	-	-
	5/32	273	0.680	42,750	9,620	123,350	26,240	-	-
	3/16	231	0.980	53,510	12,740	154,440	34,610	-	-
	1/4	164	1.746	72,020	19,380	207,910	53,020	-	-
	3/8	115	4.037	125,000	38,090	360,840	100,890	-	-
	1/2	84	7.167	177,080	60,550	511,100	172,720	-	-
	3/16	288	1.220	66,280	14,380	192,520	40,080	-	-
	1/4	204	2.173	89,590	21,830	258,620	60,230	-	-
	3/8	142	4.944	154,350	42,640	445,710	116,100	-	-
	1/2	104	8.845	219,210	67,790	632,980	184,250	-	-
	1/2	114	9.761	240,293	71,007	69,348	194,476	-	-
	3/16	345	1.456	79,890	15,840	230,640	45,190	-	-
	1/4	244	2.599	107,160	24,010	309,330	67,880	-	-
	3/8	170	5.897	184,780	46,850	533,340	130,910	-	-
	1/2	124	10.569	261,380	74,230	754,420	204,710	-	-
	1/2	134	11.441	282,462	77,100	815,539	215,427	-	-
	3/8	198	6.849	215,200	50,630	621,420	144,920	-	-
	1/2	144	12.292	303,550	79,990	876,300	226,150	-	-
	1/2	154	13.166	324,631	82,595	937,240	236,379	-	-
	3/8	226	7.802	245,630	54,030	709,050	158,270	-	-

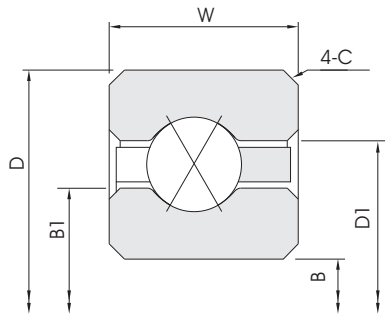
SNBO
Innovation in Motion

4-Point Contact
Type X Four Point Contact Ball Bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
KAA10XL0	1.0000	1.3750	0.1875	1.141	1.234	0.015
KAA15XL0	1.5000	1.8750	0.1875	1.641	1.734	0.015
KAA17XL0	1.7500	2.1250	0.1875	1.890	1.985	0.015
KA020XP0	2.0000	2.5000	0.2500	2.188	2.313	0.025
KB020XP0	2.0000	2.6250	0.3125	2.234	2.391	0.032
KA025XP0	2.5000	3.0000	0.2500	2.688	2.813	0.025
KB025XP0	2.5000	3.1250	0.3125	2.734	2.891	0.040
KA030XP0	3.0000	3.5000	0.2500	3.188	3.313	0.025
KB030XP0	3.0000	3.6250	0.3125	3.234	3.391	0.032
KA035XP0	3.5000	4.0000	0.2500	3.688	3.813	0.025
KB035XP0	3.5000	4.1250	0.3125	3.734	3.891	0.032
KA040XP0	4.0000	4.5000	0.2500	4.188	4.313	0.025
KB040XP0	4.0000	4.6250	0.3125	4.234	4.391	0.032
KC040XP0	4.0000	4.7500	0.3750	4.281	4.469	0.040
KD040XP0	4.0000	5.0000	0.5000	4.375	4.625	0.060
KF040XP0	4.0000	5.5000	0.7500	4.563	4.938	0.080
KG040XP0	4.0000	6.0000	1.0000	4.750	5.250	0.080
KA042XP0	4.2500	4.7500	0.2500	4.438	4.563	0.025
KB042XP0	4.2500	4.8750	0.3125	4.484	4.641	0.032
KC042XP0	4.2500	5.0000	0.3750	4.531	4.719	0.040
KD042XP0	4.2500	5.2500	0.5000	4.625	4.875	0.060
KF042XP0	4.2500	5.7500	0.7500	4.813	5.188	0.080
KG042XP0	4.2500	6.2500	1.0000	5.000	5.500	0.080
KA045XP0	4.5000	5.0000	0.2500	4.688	4.813	0.025
KB045XP0	4.5000	5.1250	0.3125	4.734	4.891	0.032
KC045XP0	4.5000	5.2500	0.3750	4.781	4.969	0.040
KD045XP0	4.5000	5.5000	0.5000	4.875	5.125	0.060
KF045XP0	4.5000	6.0000	0.7500	5.063	5.438	0.080
KG045XP0	4.5000	6.5000	1.0000	5.250	5.750	0.080
KA047XP0	4.7500	5.2500	0.2500	4.938	5.063	0.025
KB047XP0	4.7500	5.3750	0.3125	4.984	5.141	0.032
KC047XP0	4.7500	5.5000	0.3750	5.031	5.219	0.040
KD047XP0	4.7500	5.7500	0.5000	5.125	5.375	0.060
KF047XP0	4.7500	6.2500	0.7500	5.313	5.688	0.080
KG047XP0	4.7500	6.7500	1.0000	5.500	6.000	0.080
KA050XP0	5.0000	5.5000	0.2500	5.188	5.313	0.025
KB050XP0	5.0000	5.6250	0.3125	5.234	5.391	0.032
KC050XP0	5.0000	5.7500	0.3750	5.281	5.469	0.040
KD050XP0	5.0000	6.0000	0.5000	5.375	5.625	0.060
KF050XP0	5.0000	6.5000	0.7500	5.563	5.938	0.080
KG050XP0	5.0000	7.0000	1.0000	5.750	6.250	0.080
KA055XP0	5.5000	6.0000	0.2500	5.688	5.813	0.025
KB055XP0	5.5000	6.1250	0.3125	5.734	5.891	0.032
KC055XP0	5.5000	6.2500	0.3750	5.781	5.969	0.040
KD055XP0	5.5000	6.5000	0.5000	5.875	6.125	0.060

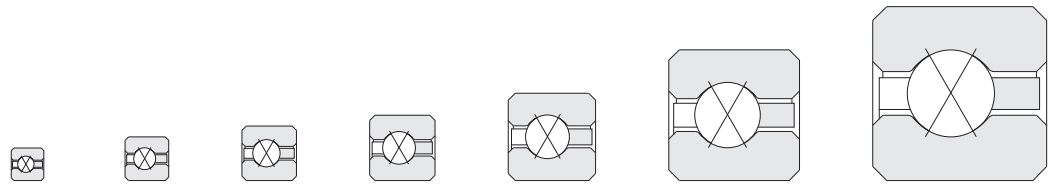


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/32	22	0.014	1,290	1,200	3,250	3,020	20	20
	3/32	30	0.018	1,780	1,380	4,450	3,430	40	30
	3/32	33	0.027	2,050	1,430	5,070	3,580	50	37
	1/8	27	0.045	3,020	2,290	7,610	5,470	90	60
	5/32	23	0.073	4,140	3,370	10,410	7,740	120	90
	1/8	33	0.059	3,690	2,590	9,300	5,870	130	80
	5/32	28	0.091	5,070	3,770	12,630	8,360	180	120
	1/8	39	0.068	4,400	2,860	10,990	6,270	180	100
	5/32	33	0.109	5,960	4,150	14,900	8,850	250	150
	1/8	45	0.082	5,070	3,120	12,680	6,580	240	130
	5/32	38	0.122	6,850	4,510	17,170	9,340	330	180
	1/8	51	0.086	5,740	3,360	14,320	6,890	310	150
	5/32	43	0.136	7,780	4,850	19,440	9,830	430	210
	3/16	35	0.204	9,340	6,300	23,400	12,500	520	280
	1/4	27	0.354	13,700	10,280	34,250	21,750	780	500
	3/8	19	0.862	23,840	20,750	59,610	39,280	1,440	950
	1/2	15	1.633	36,520	35,490	91,280	67,390	2,320	1,710
	1/8	54	0.091	6,090	3,480	15,170	7,070	350	160
	5/32	45	0.141	8,140	4,980	20,330	9,920	470	230
	3/16	37	0.213	9,880	6,510	24,730	12,770	580	300
	1/4	28	0.376	14,190	10,480	35,500	21,890	860	530
	3/8	20	0.907	25,090	21,330	62,760	39,990	1,590	1,020
	1/2	15	1.724	36,520	35,220	91,280	67,390	2,430	1,800
	1/8	57	0.100	6,410	3,600	16,010	7,160	390	170
	5/32	48	0.150	8,670	5,180	21,710	10,230	530	250
	3/16	39	0.218	10,410	6,720	26,070	12,990	650	320
	1/4	30	0.399	15,210	10,920	38,030	22,600	970	570
	3/8	21	0.953	26,380	21,900	65,880	40,830	1,760	1,100
	1/2	16	1.814	38,970	36,500	97,370	70,370	2,720	1,970
	1/8	60	0.104	6,760	3,710	16,860	7,340	430	190
	5/32	50	0.154	9,030	5,310	22,600	10,280	580	260
	3/16	41	0.227	10,940	6,920	27,400	13,210	710	340
	1/4	31	0.426	15,700	11,100	39,320	22,820	1,050	610
	3/8	22	0.998	27,620	22,450	69,040	41,720	1,930	1,180
	1/2	17	1.860	41,370	37,750	103,470	73,260	3,020	2,140
	1/8	63	0.109	7,070	3,820	17,700	7,470	470	200
	5/32	53	0.172	9,560	5,500	23,930	10,590	650	280
	3/16	43	0.263	11,520	7,120	28,740	13,520	790	370
	1/4	33	0.454	16,730	11,530	41,860	23,440	1,170	660
	3/8	23	1.043	28,870	23,010	72,150	42,350	2,110	1,260
	1/2	18	1.950	43,810	38,980	109,520	76,110	3,340	2,320
	1/8	69	0.113	7,780	4,040	19,390	7,650	570	220
	5/32	58	0.186	10,500	5,800	26,200	10,940	770	320
	3/16	47	0.268	12,590	7,500	31,400	13,880	940	420
	1/4	36	0.481	18,240	12,120	45,640	24,240	1,390	740

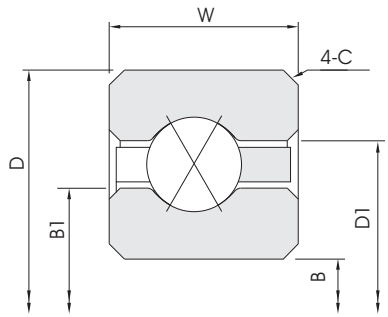
SNIBO
Innovation in Motion

4-Point Contact
Type X Four Point Contact Ball Bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
KF055XP0	5.5000	7.0000	0.7500	6.063	6.438	0.080
KG055XP0	5.5000	7.5000	1.0000	6.250	6.750	0.080
KA060XP0	6.0000	6.5000	0.2500	6.188	6.313	0.025
KB060XP0	6.0000	6.6250	0.3125	6.234	6.391	0.032
KC060XP0	6.0000	6.7500	0.3750	6.281	6.469	0.040
KD060XP0	6.0000	7.0000	0.5000	6.375	6.625	0.060
KF060XP0	6.0000	7.5000	0.7500	6.563	6.938	0.080
KG060XP0	6.0000	8.0000	1.0000	6.750	7.250	0.080
KA065XP0	6.5000	7.0000	0.2500	6.688	6.813	0.025
KB065XP0	6.5000	7.1250	0.3125	6.734	6.891	0.032
KC065XP0	6.5000	7.2500	0.3750	6.781	6.969	0.040
KD065XP0	6.5000	7.5000	0.5000	6.875	7.125	0.060
KF065XP0	6.5000	8.0000	0.7500	7.063	7.438	0.080
KG065XP0	6.5000	8.5000	1.0000	7.250	7.750	0.080
KA070XP0	7.0000	7.5000	0.2500	7.188	7.313	0.025
KB070XP0	7.0000	7.6250	0.3125	7.234	7.391	0.032
KC070XP0	7.0000	7.7500	0.3750	7.281	7.469	0.040
KD070XP0	7.0000	8.0000	0.5000	7.375	7.625	0.060
KF070XP0	7.0000	8.5000	0.7500	7.563	7.938	0.080
KG070XP0	7.0000	9.0000	1.0000	7.750	8.250	0.080
KA075XP0	7.5000	8.0000	0.2500	7.688	7.813	0.025
KB075XP0	7.5000	8.1250	0.3125	7.734	7.891	0.032
KC075XP0	7.5000	8.2500	0.3750	7.781	7.969	0.040
KD075XP0	7.5000	8.5000	0.5000	7.875	8.125	0.060
KF075XP0	7.5000	9.0000	0.7500	8.063	8.438	0.080
KG075XP0	7.5000	9.5000	1.0000	8.250	8.750	0.080
KA080XP0	8.0000	8.5000	0.2500	8.188	8.313	0.025
KB080XP0	8.0000	8.6250	0.3125	8.234	8.391	0.032
KC080XP0	8.0000	8.7500	0.3750	8.281	8.469	0.040
KD080XP0	8.0000	9.0000	0.5000	8.375	8.625	0.060
KF080XP0	8.0000	9.5000	0.7500	8.563	8.938	0.080
KG080XP0	8.0000	10.0000	1.0000	8.750	9.250	0.080
KA090XP0	9.0000	9.5000	0.2500	9.188	9.313	0.025
KB090XP0	9.0000	9.6250	0.3125	9.234	9.391	0.032
KC090XP0	9.0000	9.7500	0.3750	9.281	9.469	0.040
KD090XP0	9.0000	10.0000	0.5000	9.375	9.625	0.060
KF090XP0	9.0000	10.5000	0.7500	9.563	9.938	0.080
KG090XP0	9.0000	11.0000	1.0000	9.750	10.250	0.080
KA100XP0	10.0000	10.5000	0.2500	10.188	10.313	0.025
KB100XP0	10.0000	10.6250	0.3125	10.234	10.391	0.032
KC100XP0	10.0000	10.7500	0.3750	10.281	10.469	0.040
KD100XP0	10.0000	11.0000	0.5000	10.375	10.625	0.060
KF100XP0	10.0000	11.5000	0.7500	10.563	10.938	0.080
KG100XP0	10.0000	12.0000	1.0000	10.750	11.250	0.080
KA110XP0	11.0000	11.5000	0.2500	11.188	11.313	0.025

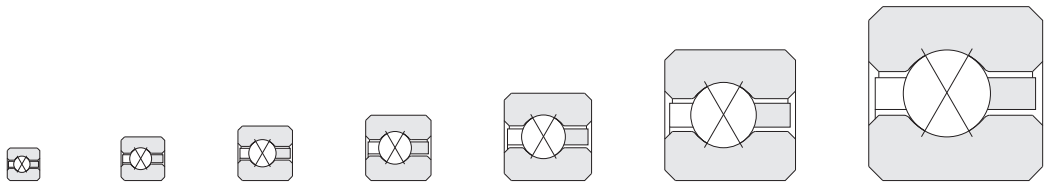


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/8	25	1.134	31,360	24,090	78,420	43,680	2,490	1,430
	1/ 2	19	2.132	46,260	39,940	115,610	77,670	3,820	2,560
	1/8	75	0.127	8,450	4,250	21,080	7,920	670	250
	5/32	63	0.200	11,390	6,100	28,470	11,300	910	370
	3/16	51	0.286	13,660	7,870	34,070	14,320	1,100	480
	1/4	39	0.526	19,790	12,700	49,460	24,950	1,630	820
	3/8	27	1.225	33,900	25,140	84,740	45,150	2,900	1,620
	1/2	21	2.313	51,110	42,270	127,800	81,360	4,540	2,890
	1/8	81	0.136	9,120	4,450	22,770	8,180	780	290
	5/32	68	0.213	12,280	6,380	30,740	11,520	1,060	410
	3/16	55	0.308	14,720	8,230	36,790	14,680	1,280	540
	1/4	42	0.553	21,310	13,260	53,250	25,530	1,890	910
	3/8	29	1.315	36,390	26,160	91,010	46,170	3,350	1,810
	1/2	22	2.449	53,560	43,210	133,890	82,380	5,100	3,140
	1/8	87	0.141	9,790	4,650	24,470	8,230	900	320
	5/32	73	0.227	13,210	6,660	33,010	11,830	1,230	460
	3/16	59	0.331	15,790	8,590	39,460	15,210	1,480	600
	1/4	45	0.594	22,820	13,800	57,070	26,160	2,170	1,000
	3/8	31	1.451	38,920	27,150	97,280	47,330	3,830	2,000
	1/2	24	2.631	58,410	45,410	146,040	85,980	5,940	3,490
	1/8	93	0.154	10,450	4,840	26,160	8,410	1,030	360
	5/32	78	0.240	14,100	6,930	35,230	12,140	1,400	520
	3/16	63	0.354	16,860	8,930	42,120	15,480	1,680	670
	1/4	48	0.640	24,330	14,330	60,850	26,960	2,470	1,100
	3/8	33	1.542	41,410	28,130	103,550	48,620	4,340	2,210
	1/2	25	2.767	60,850	46,310	152,130	86,560	6,570	3,750
	1/8	99	0.172	11,120	5,030	27,850	8,760	1,170	400
	5/32	83	0.259	14,990	7,200	37,500	12,410	1,580	570
	3/16	67	0.381	17,930	9,260	44,790	15,840	1,910	740
	1/4	51	0.694	25,840	14,850	64,680	27,450	2,790	1,200
	3/8	35	1.588	43,950	29,070	109,830	49,780	4,880	2,420
	1/2	27	2.948	65,700	48,410	164,320	89,990	7,510	4,150
	1/8	111	0.200	12,500	5,390	31,230	9,070	1,470	470
	5/32	93	0.299	16,810	7,700	42,040	12,860	1,990	680
	3/16	75	0.426	20,060	9,900	50,130	16,410	2,390	880
	1/4	57	0.780	28,910	15,840	72,280	28,510	3,490	1,430
	3/8	39	1.769	48,930	30,900	122,370	51,730	6,060	2,870
	1/2	30	3.266	73,040	51,270	182,560	93,500	9,270	4,890
	1/8	123	0.227	13,830	5,730	34,610	9,700	1,800	560
	5/32	103	0.331	18,640	8,190	46,530	13,700	2,440	800
	3/16	83	0.481	22,200	10,520	55,470	17,480	2,920	1,040
	1/4	63	0.853	31,940	16,800	79,890	29,710	4,260	1,680
	3/8	43	1.950	53,960	32,660	134,910	53,820	7,370	3,350
	1/2	33	3.583	80,330	54,030	200,790	96,930	11,220	5,660
	1/8	135	0.236	15,170	6,060	37,990	10,320	2,170	650

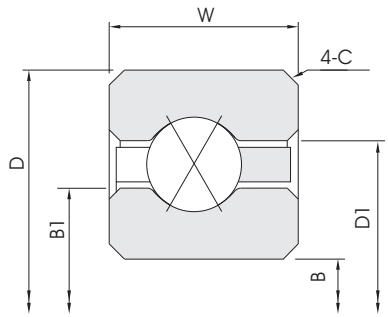
SNBO
Innovation in Motion

4-Point Contact
Type X Four Point Contact Ball Bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
KB110XP0	11.0000	11.6250	0.3125	11.234	11.391	0.032
KC110XP0	11.0000	11.7500	0.3750	11.281	11.469	0.040
KD110XP0	11.0000	12.0000	0.5000	11.375	11.625	0.060
KF110XP0	11.0000	12.5000	0.7500	11.563	11.938	0.080
KG110XP0	11.0000	13.0000	1.0000	11.750	12.250	0.080
KA120XP0	12.0000	12.5000	0.2500	12.188	12.313	0.025
KB120XP0	12.0000	12.6250	0.3125	12.234	12.391	0.032
KC120XP0	12.0000	12.7500	0.3750	12.281	12.469	0.040
KD120XP0	12.0000	13.0000	0.5000	12.375	12.625	0.060
KF120XP0	12.0000	13.5000	0.7500	12.563	12.938	0.080
KG120XP0	12.0000	14.0000	1.0000	12.750	13.250	0.080
KB140XP0	14.0000	14.6250	0.3125	14.234	14.391	0.032
KC140XP0	14.0000	14.7500	0.3750	14.281	14.469	0.040
KD140XP0	14.0000	15.0000	0.5000	14.375	14.625	0.060
KF140XP0	14.0000	15.5000	0.7500	14.563	14.938	0.080
KG140XP0	14.0000	16.0000	1.0000	14.750	15.250	0.080
KB160XP0	16.0000	16.6250	0.3125	16.234	16.391	0.032
KC160XP0	16.0000	16.7500	0.3750	16.281	16.469	0.040
KD160XP0	16.0000	17.0000	0.5000	16.375	16.625	0.060
KF160XP0	16.0000	17.5000	0.7500	16.563	16.938	0.080
KG160XP0	16.0000	18.0000	1.0000	16.750	17.250	0.080
KB180XP0	18.0000	18.6250	0.3125	18.234	18.391	0.032
KC180XP0	18.0000	18.7500	0.3750	18.281	18.469	0.040
KD180XP0	18.0000	19.0000	0.5000	18.375	18.625	0.060
KF180XP0	18.0000	19.5000	0.7500	18.563	18.938	0.080
KG180XP0	18.0000	20.0000	1.0000	18.750	19.250	0.080
KB200XP0	20.0000	20.6250	0.3125	20.234	20.391	0.032
KC200XP0	20.0000	20.7500	0.3750	20.281	20.469	0.040
KD200XP0	20.0000	21.0000	0.5000	20.375	20.625	0.060
KF200XP0	20.0000	21.5000	0.7500	20.563	20.938	0.080
KG200XP0	20.0000	22.0000	1.0000	20.750	21.250	0.080
KC250XP0	25.0000	25.7500	0.3750	25.281	25.469	0.040
KD250XP0	25.0000	26.0000	0.5000	25.375	25.625	0.060
KF250XP0	25.0000	26.5000	0.7500	25.563	25.938	0.080
KG250XP0	25.0000	27.0000	1.0000	25.750	26.250	0.080
KG275XP0	27.5000	29.5000	1.0000	28.250	28.750	0.080
KC300XP0	30.0000	30.7500	0.3750	30.281	30.469	0.040
KD300XP0	30.0000	31.0000	0.5000	30.375	30.625	0.060
KF300XP0	30.0000	31.5000	0.7500	30.563	30.938	0.080
KG300XP0	30.0000	32.0000	1.0000	30.750	31.250	0.080
KG325XP0	32.5000	34.5000	1.0000	32.250	33.750	0.080
KF350XP0	35.0000	36.5000	0.7500	35.563	35.938	0.080
KG350XP0	35.0000	37.0000	1.0000	35.750	36.250	0.080
KG375XP0	37.5000	39.5000	1.0000	38.250	38.750	0.080
KF400XP0	40.0000	41.5000	0.7500	40.563	40.938	0.080

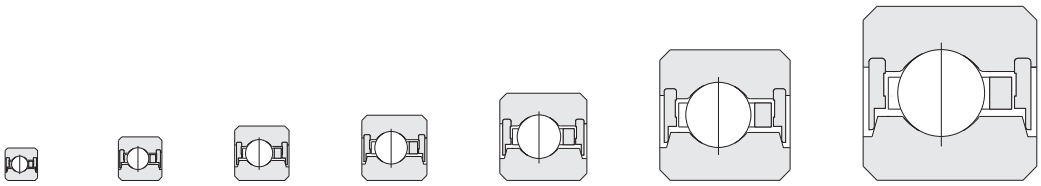


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	5/32	113	0.340	20,420	8,650	51,070	14,590	2,930	930
	3/16	91	0.526	24,330	11,100	60,850	18,590	3,510	1,200
	1/4	69	0.934	35,010	17,710	87,500	30,380	5,110	1,940
	3/8	47	2.177	58,980	34,340	147,460	55,560	8,800	3,850
	1/2	36	3.901	87,630	56,670	219,070	100,220	13,350	6,480
	1/8	147	0.254	16,550	6,370	41,370	10,900	2,570	740
	5/32	123	0.376	22,240	9,100	55,600	15,440	3,480	1,070
	3/16	99	0.567	26,470	11,660	66,190	19,660	4,160	1,380
	1/4	75	1.021	38,030	18,580	95,100	31,490	6,040	2,210
	3/8	51	2.359	64,010	35,960	160,000	58,670	10,360	4,370
	1/2	39	4.218	94,930	59,230	237,310	103,110	15,670	7,340
	5/32	143	0.476	25,840	9,940	64,630	17,080	4,700	1,360
	3/16	115	0.689	30,740	12,730	76,870	21,750	5,610	1,740
	1/4	87	1.238	44,130	20,240	110,320	34,120	8,120	2,800
	3/8	59	2.722	74,060	39,030	185,130	64,630	13,870	5,490
	1/2	45	4.899	109,520	64,070	273,830	108,090	20,870	9,160
	5/32	163	0.544	29,450	10,720	73,660	18,640	6,100	1,670
	3/16	131	0.785	35,050	13,730	87,590	23,710	7,290	2,140
	1/4	99	1.406	50,220	21,790	125,530	37,190	10,520	3,430
	3/8	67	3.221	84,070	41,910	210,220	70,370	17,890	6,690
	1/2	51	5.579	124,150	68,610	310,350	113,470	26,800	11,110
	5/32	183	0.612	33,090	11,460	82,690	20,110	7,690	2,000
	3/16	147	0.880	39,320	14,660	98,260	25,620	9,170	2,570
	1/4	111	1.579	56,270	23,250	140,740	40,170	13,220	4,100
	3/8	75	3.583	94,120	44,610	235,310	75,890	22,420	7,970
	1/2	57	6.214	138,740	72,890	346,870	121,930	33,480	13,200
	5/32	203	0.680	36,700	12,150	91,720	21,570	9,470	2,350
	3/16	163	0.980	43,590	15,530	108,980	27,450	11,280	3,020
	1/4	123	1.746	62,360	24,620	155,950	43,010	16,240	4,810
	3/8	83	4.037	104,180	47,160	260,440	81,180	27,460	9,320
	1/2	63	7.167	153,330	76,920	383,350	130,330	40,900	15,390
	3/16	203	1.220	54,270	17,530	135,720	31,760	17,490	4,240
	1/4	153	2.173	77,580	27,730	193,990	49,730	25,130	6,740
	3/8	103	4.944	129,270	52,970	323,160	93,720	42,280	13,000
	1/2	78	8.845	189,850	86,120	474,630	150,260	62,700	21,340
	1/2	86	9.761	208,110	90,210	520,220	159,602	75,910	24,600
	3/16	243	1.456	64,990	19,300	162,450	35,810	25,070	5,590
	1/4	183	2.599	92,790	30,500	232,020	56,050	35,940	8,860
	3/8	123	5.897	154,350	58,120	385,930	105,510	60,290	17,030
	1/2	93	10.569	226,370	94,300	565,810	168,940	89,120	27,860
	1/2	101	11.441	244,630	97,963	611,408	177,818	104,670	31,360
	3/8	143	6.849	179,490	62,720	448,830	116,630	81,480	21,370
	1/2	108	12.292	262,890	101,620	657,000	186,690	120,220	34,860
	1/2	116	13.166	281,150	104,929	702,819	195,143	13,790	38,580
	3/8	163	7.802	204,570	66,870	511,550	127,310	105,880	25,970

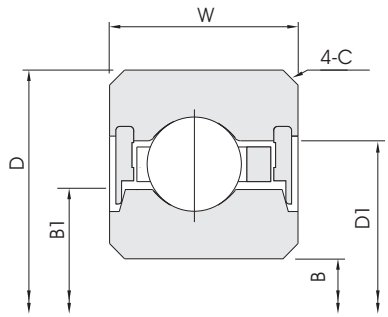
SNBO
Innovation in Motion

Sealed(Molded) Radial Contact
Type C Deep Groove Ball bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
JA020CP0	2.0000	2.5000	0.2500	2.125	2.343	0.025
JB020CP0	2.0000	2.6250	0.3125	2.156	2.430	0.032
JA025CP0	2.5000	3.0000	0.2500	2.625	2.843	0.025
JB025CP0	2.5000	3.1250	0.3125	2.656	2.930	0.032
JA030CP0	3.0000	3.5000	0.2500	3.125	3.343	0.025
JB030CP0	3.0000	3.6250	0.3125	3.156	3.430	0.032
JA035CP0	3.5000	4.0000	0.2500	3.625	3.843	0.025
JB035CP0	3.5000	4.1250	0.3125	3.656	3.930	0.032
JA040CP0	4.0000	4.5000	0.2500	4.125	4.343	0.025
JB040CP0	4.0000	4.6250	0.3125	4.156	4.430	0.032
JC040CP0	4.0000	4.7500	0.3750	4.188	4.516	0.040
JD040CP0	4.0000	5.0000	0.5000	4.250	4.687	0.060
JF040CP0	4.0000	5.5000	0.7500	4.375	5.031	0.080
JG040CP0	4.0000	6.0000	1.0000	4.500	5.375	0.080
JA042CP0	4.2500	4.7500	0.2500	4.375	4.593	0.025
JB042CP0	4.2500	4.8750	0.3125	4.406	4.680	0.032
JC042CP0	4.2500	5.0000	0.3750	4.438	4.766	0.040
JD042CP0	4.2500	5.2500	0.5000	4.500	4.937	0.060
JF042CP0	4.2500	5.7500	0.7500	4.625	5.281	0.080
JG042CP0	4.2500	6.2500	1.0000	4.750	5.590	0.080
JA045CP0	4.5000	5.0000	0.2500	4.625	4.843	0.025
JB045CP0	4.5000	5.1250	0.3125	4.656	4.930	0.032
JC045CP0	4.5000	5.2500	0.3750	4.688	5.016	0.040
JD045CP0	4.5000	5.5000	0.5000	4.750	5.187	0.060
JF045CP0	4.5000	6.0000	0.7500	4.875	5.531	0.080
JG045CP0	4.5000	6.5000	1.0000	5.000	5.875	0.080
JA047CP0	4.7500	5.2500	0.2500	4.875	5.093	0.025
JB047CP0	4.7500	5.3750	0.3125	4.906	5.180	0.032
JC047CP0	4.7500	5.5000	0.3750	4.938	5.266	0.040
JD047CP0	4.7500	5.7500	0.5000	5.000	5.437	0.060
JF047CP0	4.7500	6.2500	0.7500	5.125	5.781	0.080
JG047CP0	4.7500	6.7500	1.0000	5.250	6.090	0.080
JA050CP0	5.0000	5.5000	0.2500	5.125	5.343	0.025
JB050CP0	5.0000	5.6250	0.3125	5.156	5.430	0.032
JC050CP0	5.0000	5.7500	0.3750	5.188	5.516	0.040
JD050CP0	5.0000	6.0000	0.5000	5.250	5.687	0.060
JF050CP0	5.0000	6.5000	0.7500	5.375	6.031	0.080
JG050CP0	5.0000	7.0000	1.0000	5.500	6.375	0.080
JA055CP0	5.5000	6.0000	0.2500	5.625	5.843	0.025
JB055CP0	5.5000	6.1250	0.3125	5.656	5.930	0.032
JC055CP0	5.5000	6.2500	0.3750	5.688	6.016	0.040
JD055CP0	5.5000	6.5000	0.5000	5.750	6.187	0.060
JF055CP0	5.5000	7.0000	0.7500	5.875	6.531	0.080
JG055CP0	5.5000	7.5000	1.0000	6.000	6.875	0.080
JA060CP0	6.0000	6.5000	0.2500	6.125	6.343	0.025



Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator
Sealed

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	1/8	27	0.045	3,020	2,490	-	-	-	-
	5/32	23	0.073	4,140	3,560	-	-	-	-
	1/8	33	0.059	3,690	2,710	-	-	-	-
	5/32	28	0.091	5,070	3,830	-	-	-	-
	1/8	39	0.068	4,400	2,890	-	-	-	-
	5/32	33	0.109	5,960	4,090	-	-	-	-
	1/8	45	0.082	5,070	3,070	-	-	-	-
	5/32	38	0.122	6,850	4,310	-	-	-	-
	1/8	51	0.086	5,740	3,200	-	-	-	-
	5/32	43	0.136	7,780	4,540	-	-	-	-
	3/16	35	0.204	9,340	5,740	-	-	-	-
	1/4	27	0.354	13,700	10,010	-	-	-	-
	3/8	19	0.862	23,840	17,530	-	-	-	-
	1/2	15	1.633	36,520	29,800	-	-	-	-
	1/8	54	0.091	6,090	3,250	-	-	-	-
	5/32	45	0.141	8,140	4,580	-	-	-	-
	3/16	37	0.213	9,880	5,870	-	-	-	-
	1/4	28	0.376	14,190	10,100	-	-	-	-
	3/8	20	0.907	25,090	18,100	-	-	-	-
	1/2	15	1.724	36,520	29,800	-	-	-	-
	1/8	57	0.100	6,410	3,340	-	-	-	-
	5/32	48	0.150	8,670	4,720	-	-	-	-
	3/16	39	0.218	10,410	6,010	-	-	-	-
	1/4	30	0.399	15,210	10,450	-	-	-	-
	3/8	21	0.953	26,380	18,730	-	-	-	-
	1/2	16	1.814	38,970	31,140	-	-	-	-
	1/8	60	0.104	6,760	3,380	-	-	-	-
	5/32	50	0.154	9,030	4,760	-	-	-	-
	3/16	41	0.227	10,940	6,090	-	-	-	-
	1/4	31	0.426	15,700	10,500	-	-	-	-
	3/8	22	0.998	27,620	19,170	-	-	-	-
	1/2	17	1.860	41,370	32,430	-	-	-	-
	1/8	63	0.109	7,070	3,430	-	-	-	-
	5/32	53	0.172	9,560	4,890	-	-	-	-
	3/16	43	0.263	11,520	6,180	-	-	-	-
	1/4	33	0.454	16,730	10,810	-	-	-	-
	3/8	23	1.043	28,870	19,480	-	-	-	-
	1/2	18	1.950	43,810	33,670	-	-	-	-
	1/8	69	0.113	7,780	3,560	-	-	-	-
	5/32	58	0.186	10,500	5,030	-	-	-	-
	3/16	47	0.268	12,590	6,410	-	-	-	-
	1/4	36	0.481	18,240	11,170	-	-	-	-
	3/8	25	1.134	31,360	20,190	-	-	-	-
	1/2	19	2.132	46,260	34,920	-	-	-	-
	1/8	75	0.127	8,450	3,690	-	-	-	-

SNBO
Innovation in Motion

Sealed(Molded) Radial Contact
Type C Deep Groove Ball bearing

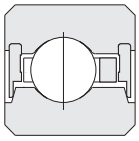

KAA
3/16"

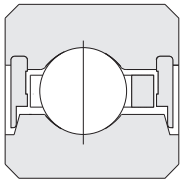

KA
1/4"


KB
5/16"

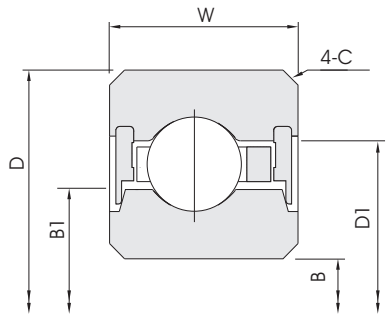

KC
3/8"


KD
1/2"


KF
3/4"


KG
1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
JB060CP0	6.0000	6.6250	0.3125	6.155	6.430	0.032
JC060CP0	6.0000	6.7500	0.3750	6.188	6.516	0.040
JD060CP0	6.0000	7.0000	0.5000	6.250	6.687	0.060
JF060CP0	6.0000	7.5000	0.7500	6.375	7.031	0.080
JG060CP0	6.0000	8.0000	1.0000	6.500	7.375	0.080
JA065CP0	6.5000	7.0000	0.2500	6.625	6.843	0.025
JB065CP0	6.5000	7.1250	0.3125	6.656	6.930	0.032
JC065CP0	6.5000	7.2500	0.3750	6.688	7.016	0.040
JD065CP0	6.5000	7.5000	0.5000	6.750	7.187	0.060
JF065CP0	6.5000	8.0000	0.7500	6.875	7.531	0.080
JG065CP0	6.5000	8.5000	1.0000	7.000	7.875	0.080
JA070CP0	7.0000	7.5000	0.2500	7.125	7.343	0.025
JB070CP0	7.0000	7.6250	0.3125	7.156	7.430	0.032
JC070CP0	7.0000	7.7500	0.3750	7.188	7.516	0.040
JD070CP0	7.0000	8.0000	0.5000	7.250	7.687	0.060
JF070CP0	7.0000	8.5000	0.7500	7.375	8.031	0.080
JG070CP0	7.0000	9.0000	1.0000	7.500	8.375	0.080
JA075CP0	7.5000	8.0000	0.2500	7.625	7.843	0.025
JB075CP0	7.5000	8.1250	0.3125	7.656	7.930	0.032
JC075CP0	7.5000	8.2500	0.3750	7.688	8.016	0.040
JD075CP0	7.5000	8.5000	0.5000	7.750	8.187	0.060
JF075CP0	7.5000	9.0000	0.7500	7.875	8.531	0.080
JG075CP0	7.5000	9.5000	1.0000	8.000	8.875	0.080
JA080CP0	8.0000	8.5000	0.2500	8.125	8.343	0.025
JB080CP0	8.0000	8.6250	0.3125	8.156	8.430	0.032
JC080CP0	8.0000	8.7500	0.3750	8.188	8.516	0.040
JD080CP0	8.0000	9.0000	0.5000	8.250	8.687	0.060
JF080CP0	8.0000	9.5000	0.7500	8.375	9.031	0.080
JG080CP0	8.0000	10.0000	1.0000	8.500	9.375	0.080
JA090CP0	9.0000	9.5000	0.2500	9.125	9.343	0.025
JB090CP0	9.0000	9.6250	0.3125	9.156	9.430	0.032
JC090CP0	9.0000	9.7500	0.3750	9.188	9.516	0.040
JD090CP0	9.0000	10.0000	0.5000	9.250	9.687	0.060
JF090CP0	9.0000	10.5000	0.7500	9.375	10.031	0.080
JG090CP0	9.0000	11.0000	1.0000	9.500	10.375	0.080
JA100CP0	10.0000	10.5000	0.2500	10.125	10.343	0.025
JB100CP0	10.0000	10.6250	0.3125	10.156	10.430	0.032
JC100CP0	10.0000	10.7500	0.3750	10.188	10.516	0.040
JD100CP0	10.0000	11.0000	0.5000	10.250	10.687	0.060
JF100CP0	10.0000	11.5000	0.7500	10.375	11.031	0.080
JG100CP0	10.0000	12.0000	1.0000	10.500	11.375	0.080
JA110CP0	11.0000	11.5000	0.2500	11.125	11.343	0.025
JB110CP0	11.0000	11.6250	0.3125	11.156	11.430	0.032
JC110CP0	11.0000	11.7500	0.3750	11.188	11.516	0.040
JD110CP0	11.0000	12.0000	0.5000	11.250	11.687	0.060

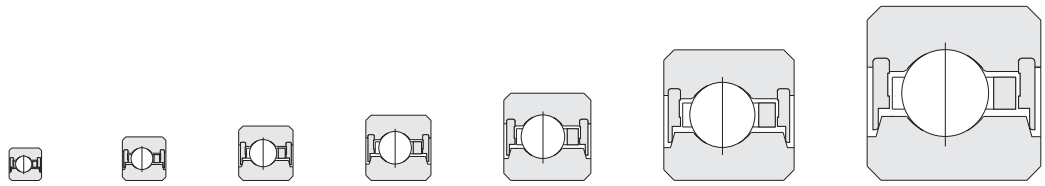


Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator
Sealed

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	5/32	63	0.200	11,390	5,200	-	-	-	-
	3/16	51	0.286	13,660	6,630	-	-	-	-
	1/4	39	0.526	19,790	11,480	-	-	-	-
	3/8	27	1.225	33,900	20,730	-	-	-	-
	1/2	21	2.313	51,110	37,320	-	-	-	-
	1/8	81	0.136	9,120	3,780	-	-	-	-
	5/32	68	0.213	12,280	5,340	-	-	-	-
	3/16	55	0.308	14,720	6,810	-	-	-	-
	1/4	42	0.553	21,310	11,790	-	-	-	-
	3/8	29	1.315	36,390	21,310	-	-	-	-
	1/2	22	2.449	53,560	37,900	-	-	-	-
	1/8	87	0.141	9,790	3,870	-	-	-	-
	5/32	73	0.227	13,210	5,520	-	-	-	-
	3/16	59	0.331	15,790	6,980	-	-	-	-
	1/4	45	0.594	22,820	12,140	-	-	-	-
	3/8	31	1.451	38,920	21,890	-	-	-	-
	1/2	24	2.631	58,410	39,500	-	-	-	-
	1/8	93	0.154	10,450	3,960	-	-	-	-
	5/32	78	0.240	14,100	5,690	-	-	-	-
	3/16	63	0.354	16,860	7,120	-	-	-	-
	1/4	48	0.640	24,330	12,460	-	-	-	-
	3/8	33	1.542	41,410	22,420	-	-	-	-
	1/2	25	2.767	60,850	39,860	-	-	-	-
	1/8	99	0.172	11,120	4,050	-	-	-	-
	5/32	83	0.259	14,990	5,690	-	-	-	-
	3/16	67	0.381	17,930	7,340	-	-	-	-
	1/4	51	0.694	25,840	12,720	-	-	-	-
	3/8	35	1.588	43,950	22,860	-	-	-	-
	1/2	27	2.948	65,700	41,370	-	-	-	-
	1/8	111	0.200	12,500	4,180	-	-	-	-
	5/32	93	0.299	16,810	5,920	-	-	-	-
	3/16	75	0.426	20,060	7,700	-	-	-	-
	1/4	57	0.780	28,910	13,210	-	-	-	-
	3/8	39	1.769	48,930	23,840	-	-	-	-
	1/2	30	3.266	73,040	43,240	-	-	-	-
	1/8	123	0.227	13,830	4,400	-	-	-	-
	5/32	103	0.331	18,640	6,230	-	-	-	-
	3/16	83	0.481	22,200	7,920	-	-	-	-
	1/4	63	0.853	31,940	13,660	-	-	-	-
	3/8	43	1.950	53,960	24,690	-	-	-	-
	1/2	33	3.583	80,330	44,660	-	-	-	-
	1/8	135	0.236	15,170	4,580	-	-	-	-
	5/32	113	0.340	20,420	6,510	-	-	-	-
	3/16	91	0.526	24,330	8,360	-	-	-	-
	1/4	69	0.934	35,010	14,150	-	-	-	-

SNBO
Innovation in Motion

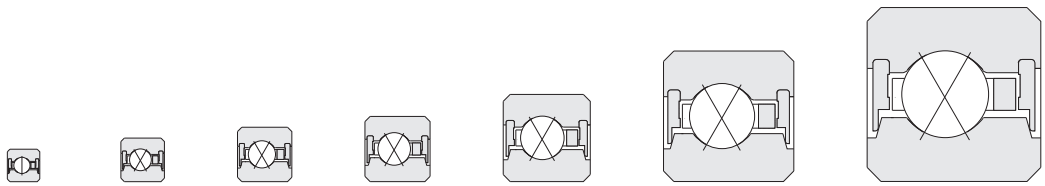
Sealed(Molded) Radial Contact
Type C Deep Groove Ball bearing



KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

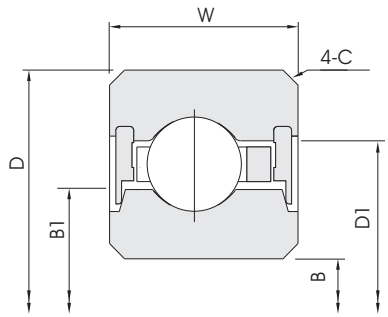
Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
JF110CP0	11.0000	12.5000	0.7500	11.375	12.031	0.080
JG110CP0	11.0000	13.0000	1.0000	11.500	12.375	0.080
JA120CP0	12.0000	12.5000	0.2500	12.125	12.343	0.025
JB120CP0	12.0000	12.6250	0.3125	12.156	12.430	0.032
JC120CP0	12.0000	12.7500	0.3750	12.188	12.516	0.040
JD120CP0	12.0000	13.0000	0.5000	12.250	12.687	0.060
JF120CP0	12.0000	13.5000	0.7500	12.375	13.031	0.080
JG120CP0	12.0000	14.0000	1.0000	12.500	13.375	0.080

Sealed(Molded) 4-Point Contact
Type X Four Point Contact Ball Bearing



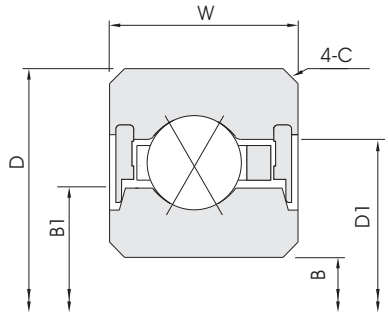
KAA 3/16" | KA 1/4" | KB 5/16" | KC 3/8" | KD 1/2" | KF 3/4" | KG 1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
JA020XP0	2.0000	2.5000	0.2500	2.125	2.343	0.025
JB020XP0	2.0000	2.6250	0.3125	2.156	2.430	0.032
JA025XP0	2.5000	3.0000	0.2500	2.625	2.843	0.025
JB025XP0	2.5000	3.1250	0.3125	2.656	2.930	0.032
JA030XP0	3.0000	3.5000	0.2500	3.125	3.343	0.025
JB030XP0	3.0000	3.6250	0.3125	3.156	3.430	0.032
JA035XP0	3.5000	4.0000	0.2500	3.625	3.843	0.025
JB035XP0	3.5000	4.1250	0.3125	3.656	3.930	0.032



Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator
Sealed

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	3/8	47	2.177	58,980	25,950	-	-	-	-
	1/2	36	3.901	87,630	46,080	-	-	-	-
	1/8	147	0.254	16,550	4,800	-	-	-	-
	5/32	123	0.376	22,240	6,850	-	-	-	-
	3/16	99	0.567	26,470	8,780	-	-	-	-
	1/4	75	1.021	38,030	14,770	-	-	-	-
	3/8	51	2.359	64,010	27,160	-	-	-	-
	1/2	39	4.218	94,930	47,550	-	-	-	-



Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator
Sealed

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	1/8	27	0.045	3,020	2,290	7,610	5,470	90	60
	5/32	23	0.073	4,140	3,370	10,410	7,740	120	90
	1/8	33	0.059	3,690	2,590	9,300	5,870	130	80
	5/32	28	0.091	5,070	3,770	12,630	8,360	180	120
	1/8	39	0.068	4,400	2,860	10,990	6,270	180	100
	5/32	33	0.109	5,960	4,150	14,900	8,850	250	150
	1/8	45	0.082	5,070	3,120	12,680	6,580	240	130
	5/32	38	0.122	6,850	4,510	17,170	9,340	330	180

SNBO
Innovation in Motion

Sealed(Molded) 4-Point Contact
Type X Four Point Contact Ball Bearing

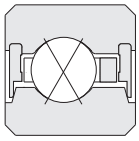

KAA
3/16"

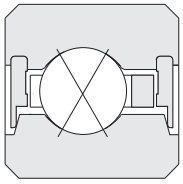

KA
1/4"


KB
5/16"

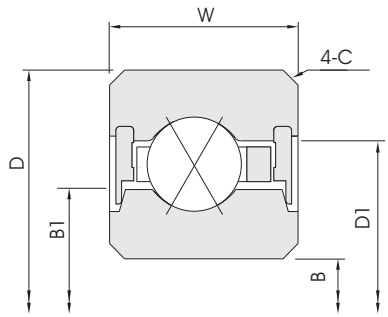

KC
3/8"


KD
1/2"


KF
3/4"


KG
1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
JA040XP0	4.0000	4.5000	0.2500	4.125	4.343	0.025
JB040XP0	4.0000	4.6250	0.3125	4.156	4.430	0.032
JC040XP0	4.0000	4.7500	0.3750	4.188	4.516	0.040
JD040XP0	4.0000	5.0000	0.5000	4.250	4.687	0.060
JF040XP0	4.0000	5.5000	0.7500	4.375	5.031	0.080
JG040XP0	4.0000	6.0000	1.0000	4.500	5.375	0.080
JA042XP0	4.2500	4.7500	0.2500	4.375	4.593	0.025
JB042XP0	4.2500	4.8750	0.3125	4.406	4.680	0.032
JC042XP0	4.2500	5.0000	0.3750	4.438	4.766	0.040
JD042XP0	4.2500	5.2500	0.5000	4.500	4.937	0.060
JF042XP0	4.2500	5.7500	0.7500	4.625	5.281	0.080
JG042XP0	4.2500	6.2500	1.0000	4.750	5.590	0.080
JA045XP0	4.5000	5.0000	0.2500	4.625	4.843	0.025
JB045XP0	4.5000	5.1250	0.3125	4.656	4.930	0.032
JC045XP0	4.5000	5.2500	0.3750	4.688	5.016	0.040
JD045XP0	4.5000	5.5000	0.5000	4.750	5.187	0.060
JF045XP0	4.5000	6.0000	0.7500	4.875	5.531	0.080
JG045XP0	4.5000	6.5000	1.0000	5.000	5.875	0.080
JA047XP0	4.7500	5.2500	0.2500	4.875	5.093	0.025
JB047XP0	4.7500	5.3750	0.3125	4.906	5.180	0.032
JC047XP0	4.7500	5.5000	0.3750	4.938	5.266	0.040
JD047XP0	4.7500	5.7500	0.5000	5.000	5.437	0.060
JF047XP0	4.7500	6.2500	0.7500	5.125	5.781	0.080
JG047XP0	4.7500	6.7500	1.0000	5.250	6.090	0.080
JA050XP0	5.0000	5.5000	0.2500	5.125	5.343	0.025
JB050XP0	5.0000	5.6250	0.3125	5.156	5.430	0.032
JC050XP0	5.0000	5.7500	0.3750	5.188	5.516	0.040
JD050XP0	5.0000	6.0000	0.5000	5.250	5.687	0.060
JF050XP0	5.0000	6.5000	0.7500	5.375	6.031	0.080
JG050XP0	5.0000	7.0000	1.0000	5.500	6.375	0.080
JA055XP0	5.5000	6.0000	0.2500	5.625	5.843	0.025
JB055XP0	5.5000	6.1250	0.3125	5.656	5.930	0.032
JC055XP0	5.5000	6.2500	0.3750	5.688	6.016	0.040
JD055XP0	5.5000	6.5000	0.5000	5.750	6.187	0.060
JF055XP0	5.5000	7.0000	0.7500	5.875	6.531	0.080
JG055XP0	5.5000	7.5000	1.0000	6.000	6.875	0.080
JA060XP0	6.0000	6.5000	0.2500	6.125	6.343	0.025
JB060XP0	6.0000	6.6250	0.3125	6.155	6.430	0.032
JC060XP0	6.0000	6.7500	0.3750	6.188	6.516	0.040
JD060XP0	6.0000	7.0000	0.5000	6.250	6.687	0.060
JF060XP0	6.0000	7.5000	0.7500	6.375	7.031	0.080
JG060XP0	6.0000	8.0000	1.0000	6.500	7.375	0.080
JA065XP0	6.5000	7.0000	0.2500	6.625	6.843	0.025
JB065XP0	6.5000	7.1250	0.3125	6.656	6.930	0.032
JC065XP0	6.5000	7.2500	0.3750	6.688	7.016	0.040



Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator
Sealed

	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	1/8	51	0.086	5,740	3,363	14,323	6,890	310	150
	5/32	43	0.136	7,780	4,850	19,440	9,830	430	210
	3/16	35	0.204	9,340	6,300	23,400	12,500	520	280
	1/4	27	0.354	13,700	10,280	34,250	21,750	780	500
	3/8	19	0.862	23,840	20,750	59,610	39,280	1,440	950
	1/2	15	1.633	36,520	35,490	91,280	67,390	2,320	1,710
	1/8	54	0.091	6,090	3,480	15,170	7.070	350	160
	5/32	45	0.141	8,140	4,980	20,330	9,920	470	230
	3/16	37	0.213	9,880	6,510	24,730	12,770	580	300
	1/4	28	0.376	14,190	10,480	35,500	21,890	860	530
	3/8	20	0.907	25,090	21,330	62,760	39,990	1,590	1,020
	1/2	15	1.724	36,520	35,220	91,280	67,390	2,430	1,800
	1/8	57	0.100	6,410	3,600	16,010	7,160	390	170
	5/32	48	0.150	8,670	5,180	21,710	10,230	530	250
	3/16	39	0.218	10,410	6,720	26,070	12,990	650	320
	1/4	30	0.399	15,210	10,920	38,030	22,600	970	570
	3/8	21	0.953	26,380	21,900	65,880	40,830	1,760	1,100
	1/2	16	1.814	38,970	36,500	97,370	70,370	2,720	1,970
	1/8	60	0.104	6,760	3,710	16,860	7,340	430	190
	5/32	50	0.154	9,030	5,310	22,600	10,280	580	260
	3/16	41	0.227	10,940	6,920	27,400	13,210	710	340
	1/4	31	0.426	15,700	11,100	39,320	22,820	1,050	610
	3/8	22	0.998	27,620	22,450	69,040	41,720	1,930	1,180
	1/2	17	1.860	41,370	37,750	103,470	73,260	3,020	2,140
	1/8	63	0.109	7,070	3,821	17,700	7,470	470	200
	5/32	53	0.172	9,560	5,500	23,930	10,590	650	280
	3/16	43	0.263	11,520	7,120	28,740	13,520	790	370
	1/4	33	0.454	16,730	11,530	41,860	23,440	1,170	660
	3/8	23	1.043	28,870	23,010	72,150	42,350	2,110	1,260
	1/2	18	1.950	43,810	38,980	109,520	76,110	3,340	2,320
	1/8	69	0.113	7,780	4,040	19,390	7,650	570	220
	5/32	58	0.186	10,500	5,800	26,200	10,940	770	320
	3/16	47	0.268	12,590	7,500	31,400	13,880	940	420
	1/4	36	0.481	18,240	12,120	45,640	24,240	1,390	740
	3/8	25	1.134	31,360	24,090	78,420	43,680	2,490	1,430
	1/2	19	2.132	46,260	39,940	115,610	77,670	3,820	2,560
	1/8	75	0.127	8,450	4,250	21,080	7.920	670	250
	5/32	63	0.200	11,390	6,100	28,470	11,300	910	370
	3/16	51	0.286	13,660	7,870	34,070	14,320	1,100	480
	1/4	39	0.526	19,790	12,700	49,460	24,950	1,630	820
	3/8	27	1.225	33,900	25,140	84,740	45,150	2,900	1,620
	1/2	21	2.313	51,110	42,270	127,800	81,360	4,540	2,890
	1/8	81	0.136	9,120	4,450	22,770	8.180	780	290
	5/32	68	0.213	12,280	6,380	30,740	11,520	1,060	410
	3/16	55	0.308	14,720	8,230	36,790	14,680	1,280	540

SNBO
Innovation in Motion

Sealed(Molded) 4-Point Contact
Type X Four Point Contact Ball Bearing

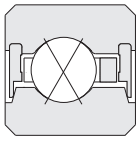

KAA
3/16"

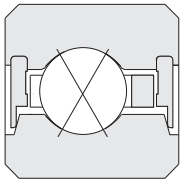

KA
1/4"


KB
5/16"

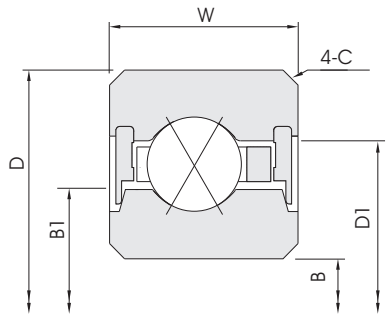

KC
3/8"


KD
1/2"


KF
3/4"


KG
1"

Bearing Type	Dimension(in)					
	B	D	W	Land Diameter		C
				B1	D1	
JD065XP0	6.5000	7.5000	0.5000	6.750	7.187	0.060
JF065XP0	6.5000	8.0000	0.7500	6.875	7.531	0.080
JG065XP0	6.5000	8.5000	1.0000	7.000	7.875	0.080
JA070XP0	7.0000	7.5000	0.2500	7.125	7.343	0.025
JB070XP0	7.0000	7.6250	0.3125	7.156	7.430	0.032
JC070XP0	7.0000	7.7500	0.3750	7.188	7.516	0.040
JD070XP0	7.0000	8.0000	0.5000	7.250	7.687	0.060
JF070XP0	7.0000	8.5000	0.7500	7.375	8.031	0.080
JG070XP0	7.0000	9.0000	1.0000	7.500	8.375	0.080
JA075XP0	7.5000	8.0000	0.2500	7.625	7.843	0.025
JB075XP0	7.5000	8.1250	0.3125	7.656	7.930	0.032
JC075XP0	7.5000	8.2500	0.3750	7.688	8.016	0.040
JD075XP0	7.5000	8.5000	0.5000	7.750	8.187	0.060
JF075XP0	7.5000	9.0000	0.7500	7.875	8.531	0.080
JG075XP0	7.5000	9.5000	1.0000	8.000	8.875	0.080
JA080XP0	8.0000	8.5000	0.2500	8.125	8.343	0.025
JB080XP0	8.0000	8.6250	0.3125	8.156	8.430	0.032
JC080XP0	8.0000	8.7500	0.3750	8.188	8.516	0.040
JD080XP0	8.0000	9.0000	0.5000	8.250	8.687	0.060
JF080XP0	8.0000	9.5000	0.7500	8.375	9.031	0.080
JG080XP0	8.0000	10.0000	1.0000	8.500	9.375	0.080
JA090XP0	9.0000	9.5000	0.2500	9.125	9.343	0.025
JB090XP0	9.0000	9.6250	0.3125	9.156	9.430	0.032
JC090XP0	9.0000	9.7500	0.3750	9.188	9.516	0.040
JD090XP0	9.0000	10.0000	0.5000	9.250	9.687	0.060
JF090XP0	9.0000	10.5000	0.7500	9.375	10.031	0.080
JG090XP0	9.0000	11.0000	1.0000	9.500	10.375	0.080
JA100XP0	10.0000	10.5000	0.2500	10.125	10.343	0.025
JB100XP0	10.0000	10.6250	0.3125	10.156	10.430	0.032
JC100XP0	10.0000	10.7500	0.3750	10.188	10.516	0.040
JD100XP0	10.0000	11.0000	0.5000	10.250	10.687	0.060
JF100XP0	10.0000	11.5000	0.7500	10.375	11.031	0.080
JG100XP0	10.0000	12.0000	1.0000	10.500	11.375	0.080
JA110XP0	11.0000	11.5000	0.2500	11.125	11.343	0.025
JB110XP0	11.0000	11.6250	0.3125	11.156	11.430	0.032
JC110XP0	11.0000	11.7500	0.3750	11.188	11.516	0.040
JD110XP0	11.0000	12.0000	0.5000	11.250	11.687	0.060
JF110XP0	11.0000	12.5000	0.7500	11.375	12.031	0.080
JG110XP0	11.0000	13.0000	1.0000	11.500	12.375	0.080
JA120XP0	12.0000	12.5000	0.2500	12.125	12.343	0.025
JB120XP0	12.0000	12.6250	0.3125	12.156	12.430	0.032
JC120XP0	12.0000	12.7500	0.3750	12.188	12.516	0.040
JD120XP0	12.0000	13.0000	0.5000	12.250	12.687	0.060
JF120XP0	12.0000	13.5000	0.7500	12.375	13.031	0.080
JG120XP0	12.0000	14.0000	1.0000	12.500	13.375	0.080



Material: Chrome Steel
Stainless Steel
Large Diameter
Light Ueight
Sunall Cross Section
Snap-Over Ball Separator
Sealed

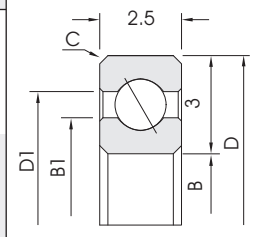
	Ball Diameter in.	Ball Quantity	Approx. Weight kg	Load Rating					
				Radial (N)		Axial (N)		Moment (Nm)	
				Static	Dynamic	Static	Dynamic	Static	Dynamic
	1/4	42	0.553	21,310	13,260	53,250	25,530	1,890	910
	3/8	29	1.315	36,390	26,160	91,010	46,170	3,350	1,810
	1/2	22	2.449	53,560	43,210	133,890	82,380	5,100	3,140
	1/8	87	0.141	9,790	4,650	24,470	8,230	900	320
	5/32	73	0.227	13,210	6,660	33,010	11,830	1,230	460
	3/16	59	0.331	15,790	8,590	39,460	15,210	1,480	600
	1/4	45	0.594	22,820	13,800	57,070	26,160	2,170	1,000
	3/8	31	1.451	38,920	27,150	97,280	47,330	3,830	2,000
	1/2	24	2.631	58,410	45,410	146,040	85,980	5,940	3,490
	1/8	93	0.154	10,450	4,840	26,160	8,410	1,030	360
	5/32	78	0.240	14,100	6,930	35,230	12,140	1,400	520
	3/16	63	0.354	16,860	8,930	42,120	15,480	1,680	670
	1/4	48	0.640	24,330	14,330	60,850	26,960	2,470	1,100
	3/8	33	1.542	41,410	28,130	103,550	48,620	4,340	2,210
	1/2	25	2.767	60,850	46,310	152,130	86,560	6,570	3,750
	1/8	99	0.172	11,120	5,030	27,850	8,760	1,170	400
	5/32	83	0.259	14,990	7,200	37,500	12,410	1,580	570
	3/16	67	0.381	17,930	9,260	44,790	15,840	1,910	740
	1/4	51	0.694	25,840	14,850	64,680	27,450	2,790	1,200
	3/8	35	1.588	43,950	29,070	109,830	49,780	4,880	2,420
	1/2	27	2.948	65,700	48,410	164,320	89,990	7,510	4,150
	1/8	111	0.200	12,500	5,390	31,230	9,070	1,470	470
	5/32	93	0.299	16,810	7,700	42,040	12,860	1,990	680
	3/16	75	0.426	20,060	9,900	50,130	16,410	2,390	880
	1/4	57	0.780	28,910	15,840	72,280	28,510	3,490	1,430
	3/8	39	1.769	48,930	30,900	122,370	51,730	6,060	2,870
	1/2	30	3.266	73,040	51,270	182,560	93,500	9,270	4,890
	1/8	123	0.227	13,830	5,730	34,610	9,700	1,800	560
	5/32	103	0.331	18,640	8,190	46,530	13,700	2,440	800
	3/16	83	0.481	22,200	10,520	55,470	17,480	2,920	1,040
	1/4	63	0.853	31,940	16,800	79,890	29,710	4,260	1,680
	3/8	43	1.950	53,960	32,660	134,910	53,820	7,370	3,350
	1/2	33	3.583	80,330	54,030	200,790	96,930	11,220	5,660
	1/8	135	0.236	15,170	6,060	37,990	10,320	2,170	650
	5/32	113	0.340	20,420	8,650	51,070	14,590	2,930	930
	3/16	91	0.526	24,330	11,100	60,850	18,590	3,510	1,200
	1/4	69	0.934	35,010	17,710	87,500	30,380	5,110	1,940
	3/8	47	2.177	58,980	34,340	147,460	55,560	8,800	3,850
	1/2	36	3.901	87,630	56,670	219,070	100,220	13,350	6,480
	1/8	147	0.254	16,550	6,370	41,370	10,900	2,570	740
	5/32	123	0.376	22,240	9,100	55,600	15,440	3,480	1,070
	3/16	99	0.567	26,470	11,660	66,190	19,660	4,160	1,380
	1/4	75	1.021	38,030	18,580	95,100	31,490	6,040	2,210
	3/8	51	2.359	64,010	35,960	160,000	58,670	10,360	4,370
	1/2	39	4.218	94,930	59,230	237,310	103,110	15,670	7,340

SNIBO
Innovation in Motion

Metric Size
Ultra-Slim Bearing

Angular Contact Type A								
Bearing Type	Dimensions in Millimeters				Capacities in Newtons		Loading Limit (N)	Mass in Grams
	B	D	Land Diameters		Dynamic Radial	Static Radial	Thrustc	
			B1	D1				
35x41x2.5A	35	41	37.2	38.8	383	382	1334	5
60x66x2.5A	60	66	62.2	63.8	552	649	1112	9
70x76x2.5A	70	76	72.2	73.8	609	756	1068	11
74x80x2.5A	74	80	76.2	77.8	632	799	1045	11
80x86x2.5A	80	86	82.2	83.8	663	863	1001	12
90x96x2.5A	90	96	92.2	93.8	716	970	956	13
100x106x2.5A	100	106	102.2	103.8	765	1007	890	15
110x116x2.5A	110	116	112.2	113.8	814	1183	867	16
120x126x2.5A	120	126	122.2	123.8	863	1290	823	18
130x136x2.5A	130	136	132.2	133.8	912	1407	778	19
140x146x2.5A	140	146	142.2	143.8	956	1514	734	21
150x156x2.5A	150	156	152.2	153.8	1001	1621	712	22
160x166x2.5A	160	166	162.2	163.8	1045	1727	689	24
170x176x2.5A	170	176	172.2	173.8	1085	1834	667	25

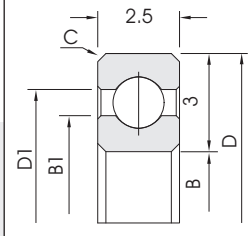
Full complement or spacer ball 1/16"(inch)



C=0.25

Radial Contact Type C							
Bearing Type	Dimensions in Millimeters				Capacities in Newtons		Mass in Grams
	B	D	Land Diameters		Dynamic Radial	Static Radial	
			B1	D1			
35x41x2.5C	35	41	37.2	38.8	418	418	5
60x66x2.5C	60	66	62.2	63.8	605	711	9
70x76x2.5C	70	76	72.2	73.8	667	827	11
74x80x2.5C	74	80	76.2	77.8	689	875	11
80x86x2.5C	80	86	82.2	83.8	725	944	12
90x96x2.5C	90	96	92.2	93.8	783	1062	13
100x106x2.5C	100	106	102.2	103.8	841	1178	15
110x116x2.5C	110	116	112.2	113.8	894	1295	16
120x126x2.5C	120	126	122.2	123.8	943	1412	18
130x136x2.5C	130	136	132.2	133.8	1001	1540	19
140x146x2.5C	140	146	142.2	143.8	1050	1658	21
150x156x2.5C	150	156	152.2	153.8	1099	1774	22
160x166x2.5C	160	166	162.2	163.8	1143	1891	24
170x176x2.5C	170	176	172.2	173.8	1192	2006	25

Full complement or spacer ball 1/16"(inch)



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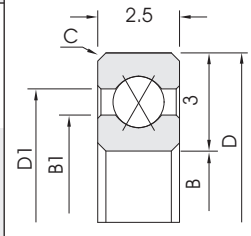
4-Point Contact Type X									
Bearing Type	Dimensions in Millimeters				Capacities in Newtons		Loading Limit		Mass in Grams
	B	D	Land Diameters		Dynamic Radial	Static Radial	Thrustc (N)	Momentc (N=m)	
			B1	D1					
35x41x2.5X	35	41	37.2	38.8	585	711	1045	7.9	5
60x66x2.5X	60	66	62.2	63.8	847	1208	934	11.8	9
70x76x2.5X	70	76	72.2	73.8	934	1407	890	13.0	11
74x80x2.5X	74	80	76.2	77.8	965	1487	867	13.4	11
80x86x2.5X	80	86	82.2	83.8	1015	1606	845	14.0	12
90x96x2.5X	90	96	92.2	93.8	1096	1805	801	14.9	13
100x106x2.5X	100	106	102.2	103.8	1177	2003	756	15.6	15
110x116x2.5X	110	116	112.2	113.8	1252	2201	734	16.6	16
120x126x2.5X	120	126	122.2	123.8	1320	2400	689	17.0	18
130x136x2.5X	130	136	132.2	133.8	1401	2618	645	17.2	19
140x146x2.5X	140	146	142.2	143.8	1470	2818	623	17.8	21
150x156x2.5X	150	156	152.2	153.8	1538	3016	601	184.4	22
160x166x2.5X	160	166	162.2	163.8	1600	3215	578	18.9	24
170x176x2.5X	170	176	172.2	173.8	1669	3413	556	19.2	25

Full complement or spacer ball 1/16"(inch)



C=0.25

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S04E.F-2024