



# Single-row radial ball bearings

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## Single-row radial ball bearings

### Definition and capabilities

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The single-row radial ball bearing is the most widely used type of bearings.

#### → Definition

##### ■ Cages for single-row ball bearings

The standard cage is in pressed steel or brass. Other cage types can be used: synthetic material, phenolic resin, machined brass.

#### → Capabilities

##### ■ Loads and speeds

Designed to:

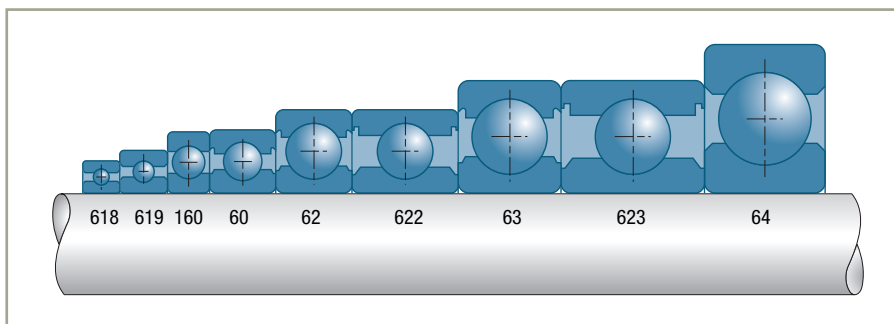
- withstand radial loads
- withstand axial loads in both directions
- accept high speeds of rotation

##### ■ Misalignment

These bearings accept misalignment of between  $0.10^\circ$  and  $0.23^\circ$  depending on the residual clearance of the bearing after fitting, the bearing series and the magnitude of loads. Where misalignment is high, it is recommended to use a bearing with a synthetic material cage, as these cages display greater flexibility and good wear resistance.

### Series

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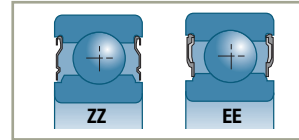


## Variations

### ■ Standard protection and sealing

These bearings can be equipped with:

- shields (suffix ZZ)
- seals (suffix EE)



A given bearing can have a combination of types of protection and sealing, for example an E seal and a Z shield (suffix EZ).

Bearing featuring

- one or two seals or two shields are supplied pre-lubricated with general-purpose grease
- unilateral protection by a single Z shield are not supplied pre-lubricated

### ■ Special sealing and protection

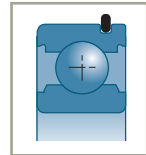
SNR proposes a range of seals for various applications:

- high speed of rotation and temperature
- reinforced sealing
- filter function for contaminated oil applications
- speed-sensing function

SNR can study jointly with the user special seals for mass production applications.

### ■ Groove for snap ring

Bearings are supplied with or without a snap ring.



## Tolerances and clearances

### ■ Tolerances

Manufactured within the normal tolerance classes.

Single-row ball bearings can be supplied on request in tolerance classes ISO 6 and 5 for all or specific characteristics (e.g. bore or radial run-out in tolerance class 6).

### ■ Internal radial clearance

All standard production bearings are in the normal clearance group N. The other groups can be supplied on request.

For single-row radial ball bearings with a tapered bore, SNR ROULEMENTS has adopted group 3 (C3) as the standard

clearance to allow for a greater reduction in clearance resulting from fitting on a tapered seat.

The radial clearance leads to an axial clearance; a simple formula can be used to calculate the approximate size of the theoretical axial clearance  $J_a$  as a function of the operating radial clearance  $J_r$ .

$$J_a = (J_r (D-d) / 20)^{1/2}$$

## Single-row radial ball bearings (continued)

■ Series 60-62-63-64-160-618-619-622-623-42-43



Bore diameter d (mm)	Group 2		Group N		Group 3		Group 4		Group 5	
	min	max	min	max	min	max	min	max	min	max
2.5 <d≤ 6	0	7	2	13	8	23	–	–	–	–
6 <d≤ 10	0	7	2	13	8	23	14	29	20	37
10 <d≤ 18	0	9	3	18	11	25	18	33	25	45
18 <d≤ 24	0	10	5	20	13	28	20	36	28	48
24 <d≤ 30	1	11	5	20	13	28	23	41	30	53
30 <d≤ 40	1	11	6	20	15	33	28	46	40	64
40 <d≤ 50	1	11	6	23	18	36	30	51	45	73
50 <d≤ 65	1	15	8	28	23	43	38	61	55	90
65 <d≤ 80	1	15	10	30	25	51	46	71	65	105
80 <d≤ 100	1	18	12	36	30	58	53	84	75	120
100 <d≤ 120	2	20	15	41	36	66	61	97	90	140
120 <d≤ 140	2	23	18	48	41	81	71	114	105	160
140 <d≤ 160	2	23	18	53	46	91	81	130	120	180
160 <d≤ 180	2	25	20	61	53	102	91	147	135	200
180 <d≤ 200	2	30	25	71	63	117	107	163	150	230
200 <d≤ 225	2	35	25	85	75	140	125	195	175	265
225 <d≤ 250	2	40	30	95	85	160	145	225	205	300
250 <d≤ 280	2	45	35	105	90	170	155	245	225	340
280 <d≤ 315	2	55	40	115	100	190	175	270	245	370
315 <d≤ 355	3	60	45	125	110	210	195	300	275	410
355 <d≤ 400	3	70	55	145	130	240	225	340	315	460
400 <d≤ 450	3	80	60	170	150	270	250	380	350	510
450 <d≤ 500	3	90	70	190	170	300	280	420	390	570
500 <d≤ 560	10	100	80	210	190	330	310	470	440	630
560 <d≤ 630	10	110	90	230	210	360	340	520	490	690
630 <d≤ 710	20	130	110	260	240	400	380	570	540	760
710 <d≤ 800	20	140	120	290	270	450	430	630	600	840

Value in μm



## Design criteria

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- **Bearing life**
- **Residual radial clearance**
- **Bearings operating under heavy axial loads**

The performance of bearings operating under heavy axial loads can be improved by increasing the radial clearance in order to create a contact angle in operation. The axial load  $F_a$  must not exceed a mean value of  $0.5 C_0$ .

This type of operation has to be studied according to the loading conditions and dimensions of the bearings. Consult with SNR.

- **Unit made up by two side-by-side bearings**

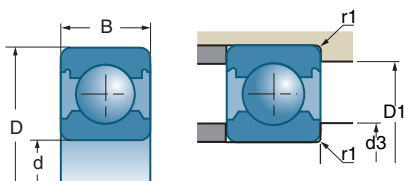
Each pair of bearings is calculated like a single bearing.

## Suffixes and prefixes

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<b>A</b>	Increased capacity
<b>C3</b>	Radial clearance of the group ISO 3
<b>C4</b>	Radial clearance of the group ISO 4
<b>D..</b>	Special grease
<b>E - EE</b>	Sealing by nitrile seal
<b>E3 -EE3</b>	Sealing by high temperature seal
<b>F..</b>	Special function
<b>G14 - G15</b>	Polyamide cage
<b>2RS</b>	Two-side sealing for thin section ball bearings
<b>2Z</b>	Two-side protection for thin section ball bearings
<b>Z -ZZ</b>	Protection by metal shields
<b>Y</b>	Brass cage

## Single-row radial ball bearings (continued)



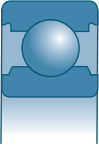
d		D	B				
				mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N
<b>3</b>	References	10	4	0.64	0.23	70000	80000
<b>4</b>	623	13	5	1.30	0.49	54000	63000
	634	16	5	1.88	0.68	45000	53000
<b>5</b>	625	16	5	1.88	0.68	47000	55000
	635	19	6	2.46	1.05	34000	40000
<b>6</b>	626	19	6	2.46	1.05	35000	41000
<b>7</b>	607	19	6	2.46	1.05	37000	46000
	627	22	7	3.30	1.36	32000	37000
<b>8</b>	608	22	7	3.30	1.36	34000	42000
<b>9</b>	609	24	7	3.65	1.64	30000	37000
	629	26	8	4.60	1.97	26000	30000
<b>10</b>	61800	19	5	1.83	0.92	34000	42000
	61900	22	6	2.70	1.27	31000	38000
	6000	26	8	4.60	1.97	27000	34000
	6200	30	9	6.00	2.65	23000	27000
	6300	35	11	7.60	3.45	19000	24000
<b>12</b>	61801	21	5	1.92	1.04	30000	37000
	61901	24	6	2.90	1.46	27000	34000
	6001	28	8	5.10	2.37	25000	32000
	6201	32	10	6.80	3.05	21000	25000
	6301	37	12	9.70	4.20	18000	23000
<b>15</b>	61802	24	5	2.08	1.26	25000	31000
	61902	28	7	4.35	2.25	23000	28000
	16002	32	8	5.60	2.85	22000	26000
	6002	32	9	5.60	2.85	21000	26000
	6202	35	11	7.70	3.75	19000	22000
	6302	42	13	11.40	5.40	15000	19000
<b>17</b>	61803	26	5	2.23	1.46	23000	28000
	61903	30	7	4.60	2.55	21000	26000
	16003	35	8	6.00	3.25	20000	24000
	6003	35	10	6.00	3.25	19000	24000

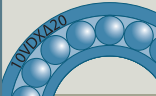

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



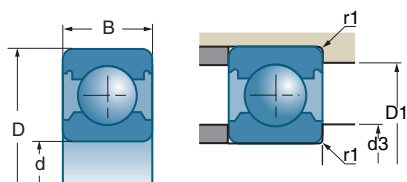
# Characteristics

## ■ Open bearing



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
623	5.0	8.0	0.10	0.002
624	5.5	11.5	0.20	0.003
634	6.0	14.0	0.30	0.005
625	7.0	14.0	0.30	0.007
635	7.0	17.0	0.30	0.010
626	8.0	17.0	0.30	0.009
607	9.0	17.0	0.30	0.008
627	9.0	20.0	0.30	0.012
608	10.0	20.0	0.30	0.012
609	11.0	22.0	0.30	0.015
629	12.9	22.1	0.30	0.020
61800	12.0	17.0	0.30	0.005
61900	12.0	20.0	0.30	0.013
6000	12.0	24.0	0.30	0.019
6200	14.0	26.0	0.60	0.033
6300	14.0	31.0	0.60	0.055
61801	14.0	19.0	0.30	0.006
61901	14.0	22.0	0.30	0.014
6001	14.0	26.0	0.30	0.022
6201	16.0	28.0	0.60	0.038
6301	17.9	31.5	1.00	0.060
61802	17.0	22.0	0.30	0.007
61902	17.0	26.0	0.30	0.015
16002	17.0	30.0	0.30	0.026
6002	17.0	30.0	0.30	0.030
6202	19.0	31.2	0.60	0.044
6302	21.0	36.3	1.00	0.083
61803	19.0	24.0	0.30	0.008
61903	19.0	28.0	0.30	0.016
16003	19.0	33.0	0.30	0.032
6003	19.0	33.0	0.30	0.039

## Single-row radial ball bearings (continued)



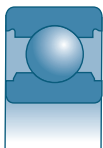
d		D	B				
				mm	mm	10°N	10°N
<b>17</b>	6203	40	12	9.60	4.80	16000	19000
	6303	47	14	13.60	6.60	14000	17000
	6403	62	17	22.70	10.80	12000	14000
<b>20</b>	61804	32	7	2.95	1.87	19500	23500
	61904	37	9	6.40	3.70	17500	20500
	16004	42	8	6.80	4.10	17000	20000
	6004	42	12	9.40	5.00	16000	20000
	6204	47	14	12.80	6.70	13000	16000
	6304	52	15	15.90	7.90	12000	15000
	6404	72	19	29.50	15.50	9600	12000
<b>25</b>	61805	37	7	4.30	2.95	17000	20000
	61905	42	9	7.00	4.55	15000	18000
	16005	47	8	10.10	5.90	14000	17000
	6005	47	12	10.10	5.90	13000	17000
	6205	52	15	14.00	7.90	12000	14000
	6305	62	17	22.40	11.50	10000	13000
	6405	80	21	36.00	19.30	8600	11000
<b>30</b>	61806	42	7	4.55	3.40	14500	17500
	61906	47	9	7.20	4.35	13500	16000
	16006	55	9	11.20	7.40	11000	14000
	6006	55	13	13.20	8.30	11000	14000
	6206	62	16	19.50	11.30	10000	12000
	6306	72	19	28.00	15.80	8900	10000
	6406	90	23	43.50	23.80	7600	9300
<b>35</b>	61807	47	7	4.75	3.80	13000	15500
	61907	55	10	9.60	5.90	11500	14000
	16007	62	9	12.10	8.80	10000	12000
	6007	62	14	16.00	10.30	10000	12000
	6207	72	17	25.50	15.30	8900	10000
	6307	80	21	33.50	19.20	8000	9800
	6407	100	25	55.00	31.00	6800	8300
<b>40</b>	61808	52	7	4.90	4.15	11500	14000
	61908	62	12	12.20	7.70	10000	12000
	16008	68	9	13.20	10.30	9800	11000
	6008	68	15	16.80	11.50	9200	11000
	6208	80	18	29.00	17.90	7800	9100
	6308	90	23	40.50	23.90	7000	8200
	6408	110	27	63.00	36.50	6200	7600

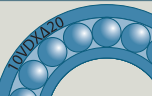

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



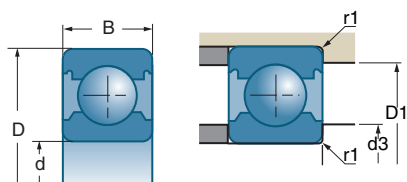


■ Open bearing (continued)



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
6203	21.0	36.0	0.60	0.067
6303	23.0	41.0	1.00	0.113
6403	25.0	54.0	1.10	0.272
61804	22.2	29.8	0.30	0.018
61904	22.2	34.8	0.30	0.036
16004	22.0	40.0	0.30	0.050
6004	24.0	38.0	0.60	0.068
6204	26.0	41.3	1.00	0.108
6304	27.0	45.0	1.10	0.140
6404	28.0	64.0	1.10	0.408
61805	27.2	34.8	0.30	0.022
61905	27.2	39.8	0.30	0.042
16005	27.0	45.0	0.30	0.056
6005	29.0	43.0	0.60	0.083
6205	31.0	46.5	1.00	0.128
6305	32.0	55.0	1.10	0.183
6405	35.0	70.0	1.50	0.534
61806	32.2	39.8	0.30	0.026
61906	32.3	44.8	0.30	0.048
16006	32.0	53.0	0.30	0.082
6006	37.5	50.0	1.00	0.111
6206	36.0	56.0	1.00	0.199
6306	37.0	65.0	1.10	0.346
6406	40.0	80.0	1.50	0.734
61807	37.2	44.8	0.30	0.029
61907	38.6	51.4	0.60	0.074
16007	37.0	60.0	0.30	0.105
6007	40.0	57.0	1.00	0.153
6207	42.0	65.0	1.10	0.285
6307	44.0	71.0	1.50	0.446
6407	45.0	90.0	1.50	0.962
61808	42.2	49.8	0.30	0.035
61908	43.6	58.4	0.60	0.110
16008	42.0	66.0	0.30	0.120
6008	45.0	63.0	1.00	0.192
6208	47.0	73.0	1.10	0.364
6308	49.0	81.0	1.50	0.612
6408	52.0	98.0	2.00	1.216

## Single-row radial ball bearings (continued)

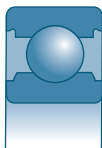


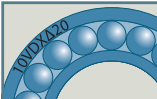

d		D	B						
				mm	References	mm	mm	10°N	10°N
<b>45</b>	61809	58	7	6.60	5.90	9600	11000		
	61909	68	12	14.10	10.90	9100	11000		
	16009	75	10	15.90	11.90	9600	11000		
	6009	75	16	21.00	15.20	8300	10000		
	6209	85	19	31.50	20.70	7100	8300		
	6309	100	25	53.00	31.50	6400	7900		
	6409	120	29	77.00	45.00	5600	6900		
<b>50</b>	61810	65	7	6.80	6.30	8600	10000		
	61910	72	12	13.40	9.60	7900	9500		
	16010	80	10	16.10	13.10	8100	9600		
	6010	80	16	22.00	16.20	7600	9500		
	6210	90	20	35.00	23.20	6800	8200		
	6310	110	27	62.00	38.00	5600	6900		
	6410	130	31	87.00	52.00	5200	6300		
<b>55</b>	61811	72	9	9.10	8.50	7700	9600		
	61911	80	13	16.60	14.10	7700	9200		
	16011	90	11	19.40	16.20	7300	8600		
	6011	90	18	30.50	22.00	6800	8500		
	6211	100	21	43.50	29.00	6100	7400		
	6311	120	29	71.00	44.50	5300	6500		
	6411	140	33	100.00	62.00	4800	5800		
<b>60</b>	61812	78	10	11.80	11.10	7100	8800		
	61912	85	13	16.40	14.20	7200	8600		
	16012	95	11	20.00	17.50	6800	8100		
	6012	95	18	29.50	23.20	6400	8000		
	6212	110	22	52.00	36.00	5500	6600		
	6312	130	31	82.00	52.00	4800	5900		
	6412	150	35	104.00	68.00	4200	5100		
<b>65</b>	61813	85	10	12.30	12.00	6600	8100		
	61913	90	13	17.40	16.00	6800	8100		
	16013	100	11	21.70	18.90	6400	7600		
	6013	100	18	30.50	25.00	6100	7500		
	6213	120	23	57.00	40.00	5100	6200		
	6313	140	33	93.00	60.00	4500	5500		
	6413	160	37	113.00	77.00	4100	5000		

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

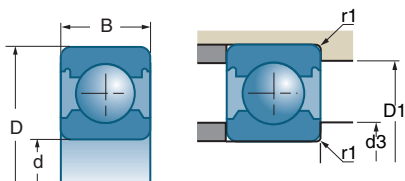


■ Open bearing (continued)



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
61809	47.6	55.4	0.30	0.039
61909	49.2	63.8	0.60	0.130
16009	49.0	71.0	0.60	0.167
6009	50.0	70.0	1.00	0.243
6209	52.0	78.0	1.10	0.416
6309	54.0	91.0	1.50	0.825
6409	57.0	108.0	2.00	1.526
61810	52.6	62.4	0.30	0.052
61910	54.2	67.8	0.60	0.130
16010	54.0	76.0	0.60	0.181
6010	55.0	75.0	1.00	0.250
6210	57.0	83.0	1.10	0.453
6310	61.0	99.0	2.00	1.070
6410	64.0	116.0	2.10	1.880
61811	57.6	69.4	0.30	0.084
61911	60.4	74.6	1.00	0.180
16011	59.0	86.0	0.60	0.266
6011	61.0	84.0	1.10	0.362
6211	64.0	91.0	1.50	0.603
6311	66.0	109.0	2.00	1.347
6411	69.0	126.0	2.10	2.302
61812	62.6	75.4	0.30	0.105
61912	65.4	79.6	1.00	0.190
16012	64.0	91.0	0.60	0.283
6012	66.0	89.0	1.10	0.411
6212	69.0	101.0	1.50	0.785
6312	73.0	117.0	2.10	1.680
6412	74.0	136.0	2.10	2.870
61813	69.2	80.8	0.60	0.130
61913	70.4	84.6	1.00	0.200
16013	69.0	96.0	0.60	0.300
6013	71.0	94.0	1.10	0.444
6213	74.0	111.0	1.50	0.991
6313	78.0	127.0	2.10	2.077
6413	79.0	146.0	2.10	3.420

## Single-row radial ball bearings (continued)



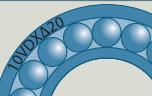

d		D	B				
				mm	mm	10°N	10°N
<b>70</b>	61814	90	10	12.40	12.40	6100	7600
	61914	100	16	23.70	18.30	6100	7300
	16014	110	13	28.00	25.00	5800	7000
	6014	110	20	38.00	31.00	5500	6800
	6214	125	24	62.00	44.00	4900	5800
	6314	150	35	104.00	68.00	4200	5100
	6414	180	42	143.00	103.00	3700	4500
<b>75</b>	61815	95	10	12.90	13.30	5800	7100
	61915	105	16	24.40	22.50	5800	7000
	16015	115	13	28.50	27.00	5500	6600
	6015	115	20	39.50	33.50	5200	6500
	6215	130	25	67.00	48.00	4600	5600
	6315	160	37	113.00	77.00	3900	4800
<b>80</b>	61816	100	10	13.00	13.80	5500	6700
	61916	110	16	25.00	23.90	5500	6600
	16016	125	14	32.00	31.00	5100	6000
	6016	125	22	47.50	39.50	4800	6000
	6216	140	26	73.00	53.00	4300	5200
	6316	170	39	123.00	86.00	3700	4500
	6416	200	48	163.00	125.00	3300	4000
<b>85</b>	61817	110	13	19.30	19.80	5000	6200
	16017	130	14	34.00	33.50	4900	5800
	6017	130	22	49.50	43.00	4600	5700
	6217	150	28	84.00	62.00	4000	4800
	6317	180	41	133.00	97.00	3500	4300
<b>90</b>	61818	115	13	19.50	20.50	4800	5900
	16018	140	16	41.50	39.50	4600	5400
	6018	140	24	58.00	49.50	4300	5300
	6218	160	30	96.00	71.00	3800	4600
	6318	190	43	143.00	107.00	3300	4000
<b>95</b>	61819	120	13	19.80	21.30	4600	5600
	6019	145	24	60.00	54.00	4000	5000
	6219	170	32	109.00	82.00	3600	4300
	6319	200	45	144.00	113.00	3100	3800

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

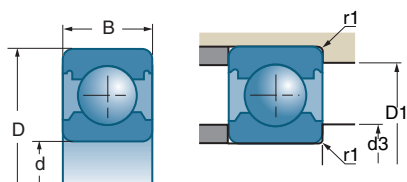


■ Open bearing (continued)



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
61814	74.2	85.8	0.60	0.140
61914	75.4	94.6	1.00	0.360
16014	74.0	106.0	0.60	0.438
6014	76.0	104.0	1.10	0.610
6214	79.0	116.0	1.50	1.055
6314	83.0	137.0	2.10	2.580
6414	86.0	164.0	3.00	5.090
61815	79.2	90.8	0.60	0.150
61915	80.4	99.6	1.00	0.360
16015	79.0	111.0	0.60	0.463
6015	81.0	109.0	1.10	0.640
6215	84.0	121.0	1.50	1.190
6315	88.0	147.0	2.10	3.031
61816	84.2	95.2	0.60	0.155
61916	85.4	104.6	1.00	0.380
16016	84.0	121.0	0.60	0.609
6016	86.0	119.0	1.10	0.870
6216	91.0	129.0	2.00	1.420
6316	93.0	157.0	2.10	3.605
6416	96.0	184.0	3.00	8.070
61817	90.4	104.6	1.00	0.270
16017	89.0	126.0	0.60	0.666
6017	91.0	124.0	1.10	0.900
6217	96.0	139.0	2.00	1.820
6317	99.0	166.0	3.00	4.210
61818	95.4	109.6	1.00	0.280
16018	95.0	135.0	1.00	0.866
6018	98.0	132.0	1.50	1.175
6218	101.0	149.0	2.00	2.180
6318	104.0	176.0	3.00	5.020
61819	100.4	114.6	1.00	0.295
6019	103.0	137.0	1.50	1.220
6219	108.0	157.0	2.10	2.800
6319	109.0	186.0	3.00	6.140

## Single-row radial ball bearings (continued)

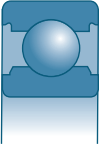


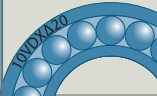

d		D	B				
				10°N	10°N	rpm*	rpm*
mm	References	mm	mm	C	C <sub>0</sub>		
<b>100</b>	61820	125	13	20.10	22.00	4400	5400
	16020	150	16	44.00	44.50	4200	5000
	6020	150	24	60.00	54.00	4000	4900
	6220	180	34	122.00	93.00	3400	4100
	6320	215	47	164.00	135.00	2900	3600
<b>105</b>	61821	130	13	20.80	23.60	4200	5100
	6021	160	26	72.00	66.00	3700	4600
	6221	190	36	133.00	104.00	3200	3900
<b>110</b>	61822	140	16	28.00	30.50	3900	4800
	16022	170	19	57.00	57.00	3700	4500
	6022	170	28	82.00	73.00	3500	4400
	6222	200	38	144.00	117.00	3100	3700
	6322	240	50	189.00	165.00	2600	3200
<b>120</b>	61824	150	16	29.00	33.00	3600	4500
	16024	180	19	61.00	64.00	3500	4200
	6024	180	28	85.00	79.00	3300	4100
	6224	215	40	145.00	123.00	2800	3400
	6324	260	55	212.00	190.00	2400	3000
<b>130</b>	61826	165	18	38.00	43.00	3600	4400
	16026	200	22	79.00	82.00	3200	3800
	6026	200	33	106.00	101.00	3000	3700
	6226	230	40	167.00	146.00	2600	3000
	6326	280	58	229.00	214.00	2200	2700
<b>140</b>	61828	175	18	39.00	46.00	3400	4100
	16028	210	22	81.00	87.00	3000	3600
	6028	210	33	109.00	107.00	2800	3500
	6228	250	42	177.00	165.00	2400	5400
	6328	300	62	255.00	246.00	2100	2600
<b>150</b>	61830	190	20	51.00	60.00	3100	3800
	6030	225	35	123.00	124.00	2600	3300
	6230	270	45	176.00	168.00	2200	2700
	6330	320	65	280.00	290.00	1900	2400
<b>160</b>	61832	200	20	52.00	62.00	3000	3600
	16032	240	25	102.00	113.00	2600	3100

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

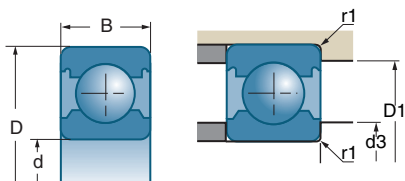


■ Open bearing (continued)



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
61820	105.4	119.6	1.00	0.310
16020	105.0	145.0	1.00	0.929
6020	108.0	142.0	1.50	1.260
6220	113.0	167.0	2.10	3.129
6320	114.0	201.0	3.00	7.560
61821	110.4	124.6	1.00	0.330
6021	114.0	151.0	2.00	1.590
6221	118.0	177.0	2.10	3.860
61822			1.00	0.500
16022	115.0	165.0	1.00	1.510
6022	119.0	161.0	2.00	1.490
6222	123.0	187.0	2.10	3.860
6322	124.0	226.0	3.00	10.300
61824	125.4	144.6	1.00	0.550
16024	125.0	175.0	1.00	1.600
6024	129.0	171.0	2.00	2.090
6224	133.0	202.0	2.10	5.600
6324	134.0	246.0	3.00	12.800
61826	137.6	157.4	1.10	0.780
16026	136.0	194.0	1.10	2.410
6026	138.8	191.2	2.00	3.270
6226	144.0	216.0	3.00	6.220
6326	148.0	262.0	4.00	18.200
61828	147.6	167.4	1.10	0.830
16028	146.0	204.0	1.00	2.530
6028	149.0	201.0	2.00	3.570
6228	154.0	236.0	3.00	7.470
6328	157.0	283.0	3.00	22.100
61830	157.6	182.4	1.10	1.350
6030	159.0	216.0	2.10	4.380
6230	164.0	256.0	2.50	10.300
6330	167.0	303.0	3.00	26.600
61832	167.6	192.4	1.10	1.400
16032	167.0	233.0	1.50	3.770

## Single-row radial ball bearings (continued)



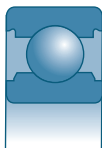
d		D	B				
				10°N	10°N	rpm*	rpm*
<b>160</b>	References 6032 6232 6332	240 290 340	38 48 68	137.00 199.00 300.00	135.00 203.00 325.00	2500 2100 1800	3000 2500 2200
<b>170</b>	61834 16034 6034 6234	215 260 260 310	22 28 42 52	61.00 123.00 168.00 212.00	73.00 136.00 172.00 224.00	2800 2400 2300 2000	3300 2900 2800 2400
<b>180</b>	61836 16036 6036 6236	225 280 280 320	22 31 46 52	62.00 131.00 188.00 226.00	76.00 146.00 196.00 244.00	2700 2300 2100 1900	3200 2800 2700 2300
<b>190</b>	61838 16038 6038 6238	240 290 290 340	24 31 46 55	69.00 149.00 195.00 255.00	85.00 167.00 213.00 280.00	2500 2200 2000 1800	3000 2600 2500 2100
<b>200</b>	61840 16040 6040 6240	250 310 310 360	24 34 51 58	70.00 175.00 214.00 270.00	88.00 202.00 238.00 310.00	2400 2000 1900 1700	2900 2400 2400 2000
<b>220</b>	61844	270	24	73.00	97.00	2200	2600
<b>240</b>	61848	300	28	92.00	120.00	2000	2400
<b>260</b>	61852	320	28	94.00	128.00	1900	2200
<b>280</b>	61856	350	33	126.00	170.00	1700	2000
<b>300</b>	61860	380	38	148.00	198.00	1600	1900
<b>320</b>	61864	400	38	154.00	213.00	1500	1800
<b>340</b>	61868	420	38	155.00	219.00	1400	1700
<b>360</b>	61872	440	38	160.00	234.00	1350	1600

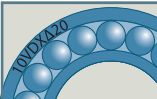

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



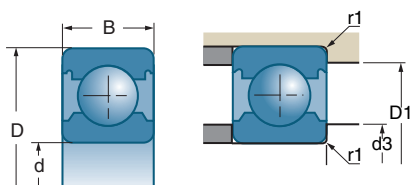


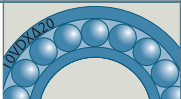


■ Open bearing (continued)



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
6032	170.0	230.0	2.10	6.120
6232	174.0	276.0	2.50	14.300
6332	177.0	323.0	3.00	31.500
61834	177.6	207.4	1.10	1.600
16034	177.0	253.0	1.50	5.130
6034	180.0	250.0	2.10	8.200
6234	187.0	293.0	3.00	17.700
61836	187.6	217.4	1.10	2.000
16036	189.0	271.0	2.00	6.920
6036	190.0	270.0	2.10	10.700
6236	197.0	303.0	3.00	18.300
61838	199.0	231.0	1.50	2.700
16038	199.0	281.0	2.00	7.090
6038	200.0	280.0	2.10	11.270
6238	207.0	323.0	3.00	22.200
61840	209.0	241.0	1.50	2.700
16040	219.0	301.0	2.00	9.110
6040	210.0	300.0	2.10	14.430
6240	217.0	343.0	3.00	26.500
61844	229.0	261.0	1.50	2.900
61848	251.0	289.0	2.00	4.500
61852	271.0	309.0	2.00	4.800
61856	291.0	339.0	2.00	7.300
61860	314.0	366.0	2.10	10.500
61864	334.0	386.0	2.10	11.000
61868	354.0	406.0	2.10	11.500
61872	374.0	426.0	2.10	12.000

## Single-row radial ball bearings (continued)

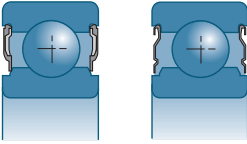



d mm		D mm	B mm				
				10 <sup>3</sup> N	10 <sup>3</sup> N	rpm EE/2RS*	rpm ZZ*
<b>3</b>	References 623 EE 623 ZZ	10	4	0.64	0.23	47000	70000
<b>4</b>	604 ZZ	12	4	0.71	0.27		60000
	624 EE 624 ZZ	13	5	1.3	0.5	36000	54000
	634 EE 634 ZZ	16	5	1.88	0.68	25000	46000
<b>5</b>	625 EE 625 ZZ	16	5	1.88	0.68	31000	47000
	635 ZZ	19	6	2.46	1.05		34000
<b>6</b>	626 EE 626 ZZ	19	6	2.46	1.05	23000	35000
<b>7</b>	607 EE 607 ZZ	19	6	2.46	1.05	25000	37000
	627 EE 627 ZZ	22	7	3.3	1.36	21000	32000
<b>8</b>	608 EE 608 ZZ	22	7	3.3	1.36	23000	34000
<b>9</b>	609 EE 609 ZZ	24	7	3.65	1.64	20000	30000
	629 EE 629 ZZ	26	8	4.6	1.97	17000	26000
<b>10</b>	61800 EE 61800 ZZ	19	5	1.83	0.92	22000	34000
	61900 EE 61900 ZZ	22	6	2.7	1.27	20000	31000
	6000 EE 6000 ZZ	26	8	4.6	1.97	18000	27000
	63000 EE	26	12	4.6	1.97	18000	
	6200 EE 6200 ZZ	30	9	6	2.65	15000	23000
	62200 EE 62200 ZZ	30	14	6	2.65	15000	18000
	6300 EE 6300 ZZ	35	11	7.6	3.45	13000	20000
	62300 EE	35	17	8.1	3.45	13000	
<b>12</b>	61801 EE 61801 ZZ	21	5	1.92	1.04	20000	30000
	61901 EE 61901 ZZ	24	6	2.9	1.46	18000	27000
	6001 EE 6001 ZZ	28	8	5.1	2.37	16000	25000
	63001 EE	28	12	5.1	2.37	16000	
	6201 EE 6201 ZZ	32	10	6.8	3.05	14000	21000
	62201 EE	32	14	6.9	3.1	14000	
	6301 EE 6301 ZZ	37	12	9.7	4.2	12000	18000
	62301 EE	37	17	9.7	4.2	12000	
<b>15</b>	61802 EE 61802 ZZ	24	5	2.08	1.26	17000	25000
	61902 EE 61902 ZZ	28	7	4.35	2.25	15000	23000
	6002 EE 6002 ZZ	32	9	5.6	2.85	14000	21000
	63002 EE	32	13	5.6	2.85	14000	

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

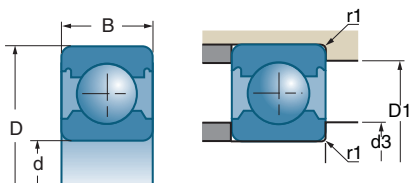


## ■ Sealed and shielded bearing



References		d3 min	D1 max	r1 max	
References		mm	mm	mm	kg
623 EE	623 ZZ	5.0	8.0	0.10	0.0015
624 EE	604 ZZ	5.4	10.6	0.20	0.0021
624 EE	624 ZZ	5.5	11.5	0.20	0.0060
634 EE	634 ZZ	6.0	14.0	0.30	0.0050
625 EE	625 ZZ	7.0	14.0	0.30	0.0070
	635 ZZ	7.0	17.0	0.30	0.0100
626 EE	626 ZZ	8.0	17.0	0.30	0.0090
607 EE	607 ZZ	9.0	17.0	0.30	0.0120
627 EE	627 ZZ	9.0	20.0	0.30	0.0120
608 EE	608 ZZ	10.0	20.0	0.30	0.0120
609 EE	609 ZZ	11.0	22.0	0.30	0.0140
629 EE	629 ZZ	12.9	22.1	0.30	0.0200
61800 EE	61800 ZZ	12.0	17.0	0.30	0.0050
61900 EE	61900 ZZ	12.0	20.0	0.30	0.0130
6000 EE	6000 ZZ	12.0	24.0	0.30	0.0190
63000 EE		12.0	24.0	0.30	0.0280
6200 EE	6200 ZZ	14.0	26.0	0.60	0.0330
62200 EE	62200 ZZ	14.0	26.0	0.60	0.0480
6300 EE	6300 ZZ	14.0	31.0	0.60	0.0550
62300 EE		14.0	31.0	0.60	0.0790
61801 EE	61801 ZZ	14.0	19.0	0.30	0.0060
61901 EE	61901 ZZ	14.0	22.0	0.30	0.0140
6001 EE	6001 ZZ	14.0	26.0	0.30	0.0220
63001 EE		14.0	26.0	0.30	0.0290
6201 EE	6201 ZZ	16.0	28.0	0.60	0.0380
62201 EE		16.0	28.0	0.60	0.0490
6301 EE	6301 ZZ	17.9	31.5	1.00	0.0620
62301 EE		17.9	31.5	1.00	0.0700
61802 EE	61802 ZZ	17.0	22.0	0.30	0.0070
61902 EE	61902 ZZ	17.0	26.0	0.30	0.0150
6002 EE	6002 ZZ	17.0	30.0	0.30	0.0300
63002 EE		17.0	30.0	0.30	0.0440

## Single-row radial ball bearings (continued)

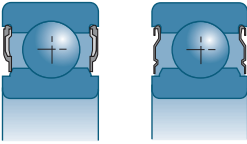



d mm			D mm	B mm					
	References				10 <sup>6</sup> N	10 <sup>7</sup> N	rpm EE/2RS*	rpm ZZ*	
<b>15</b>	6202 EE	6202 ZZ	35	11	7.7	3.75	12000	19000	
	62202 EE		35	14	7.7	3.75	12000		
	6302 EE	6302 ZZ	42	13	11.3	5.4	11000	16000	
	62302 EE		42	17	11.3	5.4	11000		
<b>17</b>	61803 EE	61803 ZZ	26	5	2.23	1.46	15000	23000	
	61903 EE	61903 ZZ	30	7	4.6	2.55	14000	21000	
	6003 EE	6003 ZZ	35	10	6	3.25	12000	19000	
	63003 EE		35	14	6	3.25	12000		
	6203 EE	6203 ZZ	40	12	9.5	4.75	10000	16000	
	62203 EE		40	16	9.5	4.75	11000		
	6303 EE	6303 ZZ	47	14	13.6	6.6	9300	14000	
	62303 EE		47	19	13.6	6.6	9400		
	<b>20</b>	61804 2RS	61804 ZZ	32	7	2.95	1.87	11500	19500
		61904 2RS	61904 ZZ	37	9	6.4	3.7	11000	17500
6004 EE		6004 ZZ	42	12	9.4	5	10000	16000	
63004 EE			42	16	9.4	5	10000		
6204 EE		6204 ZZ	47	14	12.8	6.6	9300	14000	
62204 EE			47	18	12.8	6.6	9500		
6304 EE		6304 ZZ	52	15	15.9	7.9	8600	12000	
62304 EE			52	21	15.9	7.9	8600		
<b>25</b>	61805 2RS	61805 ZZ	37	7	4.3	2.95	9800	17000	
	61905 2RS	61905 ZZ	42	9	7	4.55	9800	15000	
	6005 EE	6005 ZZ	47	12	10.1	5.8	9300	14000	
	63005 EE		47	16	10.1	5.8	9300		
	6205 EE	6205 ZZ	52	15	14	7.9	8100	12000	
	62205 EE		52	18	14	7.9	8100		
	6305 EE	6305 ZZ	62	17	23.6	12.1	7100	10000	
	62305 EE		62	24	23.6	12.1	7100		
<b>30</b>	61806 2RS	61806 ZZ	42	7	4.55	3.4	8400	14500	
	61906 2RS	61906 ZZ	47	9	7.2	5	8100	13500	
	6006 EE	6006 ZZ	55	13	13.2	8.3	7800	11000	
	63006 EE		55	19	13.2	8.3	7800		
	6206 EE	6206 ZZ	62	16	19.5	11.3	6800	10000	
	62206 EE		62	20	19.5	11.3	6900		
	6306 EE	6306 ZZ	72	19	27	15.2	5800	8900	
	62306 EE		72	27	28	15.8	6000		

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

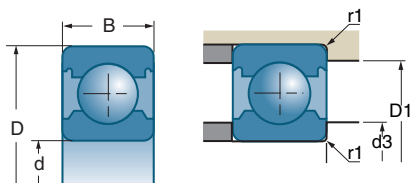


■ Sealed and shielded bearing (continued)



		d3 min	D1 max	r1 max	
References		mm	mm	mm	kg
6202 EE	6202 ZZ	19.0	31.2	0.60	0.0460
62202 EE		19.0	31.2	0.60	0.0530
6302 EE	6302 ZZ	21.0	36.3	1.00	0.0830
62302 EE		21.0	36.3	1.00	0.1080
61803 EE	61803 ZZ	19.0	24.0	0.30	0.0080
61903 EE	61903 ZZ	19.0	28.0	0.30	0.0160
6003 EE	6003 ZZ	19.0	33.0	0.30	0.0390
63003 EE		19.0	33.0	0.30	0.0550
6203 EE	6203 ZZ	21.0	36.0	0.60	0.0677
62203 EE		21.0	36.0	0.60	0.0820
6303 EE	6303 ZZ	23.0	41.0	1.00	0.1130
62303 EE		23.0	41.0	1.00	0.1460
61804 2RS	61804 ZZ	22.2	29.8	0.30	0.0180
61904 2RS	61904 ZZ	22.2	34.8	0.30	0.0360
6004 EE	6004 ZZ	24.0	38.0	0.60	0.0680
63004 EE		24.0	38.0	0.60	0.0820
6204 EE	6204 ZZ	26.0	41.3	1.00	0.1000
62204 EE		26.0	41.3	1.00	0.1310
6304 EE	6304 ZZ	27.0	45.0	1.10	0.1470
62304 EE		27.0	45.0	1.10	0.1970
61805 2RS	61805 ZZ	27.2	34.8	0.30	0.0220
61905 2RS	61905 ZZ	27.2	39.8	0.30	0.0420
6005 EE	6005 ZZ	29.0	43.0	0.60	0.0800
63005 EE		29.0	43.0	0.60	0.1050
6205 EE	6205 ZZ	31.0	46.5	1.00	0.1270
62205 EE		31.0	46.5	1.00	0.1480
6305 EE	6305 ZZ	32.0	55.0	1.10	0.2250
62305 EE		32.0	55.0	1.10	0.3170
61806 2RS	61806 ZZ	32.2	39.8	0.30	0.0260
61906 2RS	61906 ZZ	32.3	44.8	0.30	0.0480
6006 EE	6006 ZZ	35.0	50.0	1.00	0.1160
63006 EE		35.0	50.0	1.00	0.1660
6206 EE	6206 ZZ	36.0	56.0	1.00	0.1990
62206 EE		36.0	56.0	1.00	0.2360
6306 EE	6306 ZZ	37.0	65.0	1.10	0.3500
62306 EE		37.0	65.0	1.10	0.4730

## Single-row radial ball bearings (continued)

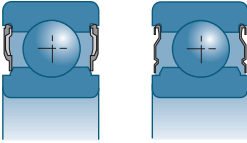


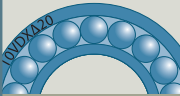

d		D	B				
				mm	mm	mm	mm
<b>35</b>	61807 2RS 61807 ZZ	47	7	4.75	3.8	7300	13000
	61907 2RS	55	10	9.6	5.9	8000	
	6007 EE 6007 ZZ	62	14	16	10.3	6800	10000
	63007 EE	62	20	16	10.3	6800	
	6207 EE 6207 ZZ	72	17	25.5	15.3	5900	8900
	62207 EE	72	23	25.5	15.3	5900	
	6307 EE 6307 ZZ	80	21	33.5	19.2	5300	8000
	62307 EE	80	31	33.5	19.2	5300	
<b>40</b>	61808 2RS 61808 ZZ	52	7	4.9	4.15	6500	11500
	6008 EE 6008 ZZ	68	15	16.8	11.5	6100	9200
	63008 EE	68	21	16.8	11.5	6100	
	6208 EE 6208 ZZ	80	18	29.5	18.1	5200	7800
	62208 EE	80	23	29	17.9	5300	
	6308 EE 6308 ZZ	90	23	40.5	23.9	4700	7000
	62308 EE	90	33	40.5	23.9	4800	
<b>45</b>	61809 EE 61809 ZZY	58	7	6.6	5.9	6400	10500
	6009 EE 6009 ZZ	75	16	21	15.2	5500	8300
	6209 EE 6209 ZZ	85	19	32.5	20.5	4900	7300
	62209 EE	85	23	32.5	20.5	4900	
	6309 EE 6309 ZZ	100	25	53	31.5	4200	6200
<b>50</b>	61810 EE 61810 ZZY	65	7	6.8	6.3	5700	9300
	6010 EE 6010 ZZ	80	16	21.8	16.6	5000	7600
	6210 EE 6210 ZZ	90	20	35	23.2	4500	6800
	62210 EE	90	23	35	23.2	4500	
	6310 EE 6310 ZZ	110	27	62	38	3700	5600
<b>55</b>	61811 EE 61811 ZZY	72	9	9.1	8.5	5100	8400
	6011 EE 6011 ZZ	90	18	28.5	21.3	4500	6800
	6211 EE 6211 ZZ	100	21	43.5	29	4100	6100
	6311 EE 6311 ZZ	120	29	71	44.5	3500	5300
<b>60</b>	61812 EE 61812 ZZY	78	10	11.8	11.1	4700	7700
	6012 EE 6012 ZZ	95	18	29.5	23.2	4300	6400
	6212 EE 6212 ZZ	110	22	52	36	3600	5500
	6312 EE 6312 ZZ	130	31	82	52	3200	4800

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

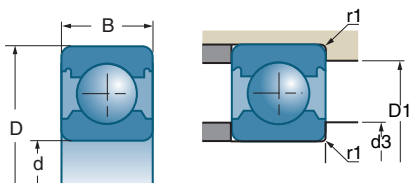


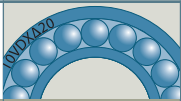


■ Sealed and shielded bearing (continued)



		d3 min	D1 max	r1 max	
References		mm	mm	mm	kg
61807 2RS	61807 ZZ	37.2	44.8	0.30	0.0290
61907 2RS		38.6	51.4	0.60	0.0740
6007 EE	6007 ZZ	40.0	57.0	1.00	0.1330
63007 EE		40.0	57.0	1.00	0.2140
6207 EE	6207 ZZ	42.0	65.0	1.10	0.2850
62207 EE		42.0	65.0	1.10	0.3750
6307 EE	6307 ZZ	44.0	71.0	1.50	0.4460
62307 EE		44.0	71.0	1.50	0.6580
61808 2RS	61808 ZZ	42.2	49.8	0.30	0.0350
6008 EE	6008 ZZ	45.0	63.0	1.00	0.1920
63008 EE		45.0	63.0	1.00	0.2620
6208 EE	6208 ZZ	47.0	73.0	1.10	0.3670
62208 EE		47.0	73.0	1.10	0.4600
6308 EE	6308 ZZ	49.0	81.0	1.50	0.6120
62308 EE		49.0	81.0	1.50	0.8740
61809 EE	61809 ZZY	47.6	55.4	0.30	0.0390
6009 EE	6009 ZZ	50.0	70.0	1.00	0.2480
6209 EE	6209 ZZ	52.0	78.0	1.10	0.4040
62209 EE		52.0	78.0	1.10	0.4810
6309 EE	6309 ZZ	54.0	91.0	1.50	0.8250
61810 EE	61810 ZZY	52.6	62.4	0.30	0.0520
6010 EE	6010 ZZ	55.0	75.0	1.00	0.2654
6210 EE	6210 ZZ	57.0	83.0	1.10	0.4530
62210 EE		57.0	83.0	1.10	0.5140
6310 EE	6310 ZZ	61.0	99.0	2.00	1.0700
61811 EE	61811 ZZY	57.6	69.4	0.30	0.0840
6011 EE	6011 ZZ	61.0	84.0	1.10	0.3880
6211 EE	6211 ZZ	64.0	91.0	1.50	0.6030
6311 EE	6311 ZZ	66.0	109.0	2.00	1.3800
61812 EE	61812 ZZY	62.6	75.4	0.30	0.1050
6012 EE	6012 ZZ	66.0	89.0	1.10	0.4114
6212 EE	6212 ZZ	69.0	101.0	1.50	0.7850
6312 EE	6312 ZZ	73.0	117.0	2.10	1.7200

## Single-row radial ball bearings (continued)



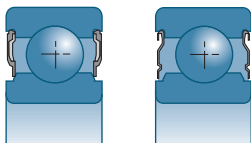
d		D	B				
				10°N	10°N	rpm EE/2RS*	rpm ZZ*
mm	References	mm	mm				
<b>65</b>	61813 EE 61813 ZZ	85	10	12.3	12	4400	7100
	6013 EE 6013 ZZ	100	18	30.5	25	4000	6100
	6213 EE 6213 ZZ	120	23	57	40	3400	5100
	6313 EE 6313 ZZ	140	33	93	60	3000	4500
<b>70</b>	61814 EE 61814 ZZ	90	10	12.4	12.4	4100	6700
	6014 EE 6014 ZZ	110	20	38	31	3700	5500
	6214 EE 6214 ZZ	125	24	62	44	3200	4900
	6314 EE 6314 ZZ	150	35	104	68	2800	4200
<b>75</b>	61815 EE 61815 ZZ	95	10	12.9	13.3	3800	6300
	6015 EE 6015 ZZ	115	20	39.5	33.5	3500	5200
	6215 EE 6215 ZZ	130	25	67	48	3100	4600
	6315 EE 6315 ZZ	160	37	113	77	2600	3900
<b>80</b>	61816 EE 61816 ZZ	100	10	13	13.8	3600	6000
	6016 EE 6016 ZZ	125	22	47.5	39.5	3200	4800
	6216 EE 6216 ZZ	140	26	73	53	2900	4300
	6316 EE 6316 ZZ	170	39	123	86	2400	3700
<b>85</b>	61817 EE 61817 ZZ	110	13	19.3	19.8	3300	5500
	6017 EE 6017 ZZ	130	22	49.5	43	3100	4600
	6217 EE 6217 ZZ	150	28	84	62	2700	4000
	6317 EE 6317 ZZ	180	41	133	97	2300	3500
<b>90</b>	61818 EE 61818 ZZ	115	13	19.5	20.5	3200	5200
	6018 EE 6018 ZZ	140	24	58	49.5	2800	4300
	6218 EE 6218 ZZ	160	30	96	71	2500	3800
	6318 EE 6318 ZZ	190	43	143	107	2200	3300
<b>95</b>	61819 EE 61819 ZZ	120	13	19.8	21.3	3000	5000
	6019 EE 6019 ZZ	145	24	60	54	2700	4000
	6219 EE 6219 ZZ	170	32	109	82	2400	3600
	6319 ZZ	170	32	109	82		3100
<b>100</b>	61820 EE 61820 ZZ	125	13	20.1	22	2900	4800
	6020 EE 6020 ZZ	150	24	60	54	2600	4000
	6220 EE 6220 ZZ	180	34	122	93	2300	3400
	6320 ZZ	180	34	122	93		2900

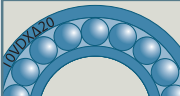

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



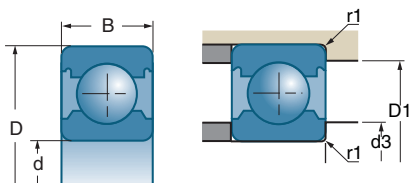


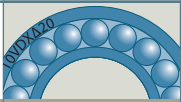
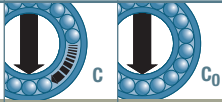

■ Sealed and shielded bearing (continued)



	d3	D1	r1	
	min	max	max	
References	mm	mm	mm	kg
61813 EE 61813 ZZ	69.2	80.8	0.60	0.1300
6013 EE 6013 ZZ	71.0	94.0	1.10	0.4540
6213 EE 6213 ZZ	74.0	111.0	1.50	0.9910
6313 EE 6313 ZZ	78.0	127.0	2.10	2.0770
61814 EE 61814 ZZ	74.2	85.8	0.60	0.1400
6014 EE 6014 ZZ	76.0	104.0	1.10	0.6100
6214 EE 6214 ZZ	79.0	116.0	1.50	1.0000
6314 EE 6314 ZZ	83.0	137.0	2.10	2.5660
61815 EE 61815 ZZ	79.2	90.8	0.60	0.1500
6015 EE 6015 ZZ	81.0	109.0	1.10	0.6400
6215 EE 6215 ZZ	84.0	121.0	1.50	1.1900
6315 EE 6315 ZZ	88.0	147.0	2.10	3.1200
61816 EE 61816 ZZ	84.2	95.2	0.60	0.1550
6016 EE 6016 ZZ	86.0	119.0	1.10	0.8700
6216 EE 6216 ZZ	91.0	129.0	2.00	1.4200
6316 EE 6316 ZZ	93.0	157.0	2.10	3.7000
61817 EE 61817 ZZ	90.4	104.6	1.00	0.2700
6017 EE 6017 ZZ	91.0	124.0	1.10	0.9000
6217 EE 6217 ZZ	96.0	139.0	2.00	1.8500
6317 EE 6317 ZZ	99.0	166.0	3.00	4.2100
61818 EE 61818 ZZ	95.4	109.6	1.00	0.2800
6018 EE 6018 ZZ	98.0	132.0	1.50	1.1750
6218 EE 6218 ZZ	101.0	149.0	2.00	2.2500
6318 EE 6318 ZZ	104.0	176.0	3.00	4.9730
61819 EE 61819 ZZ	100.4	114.6	1.00	0.2950
6019 EE 6019 ZZ	103.0	137.0	1.50	1.2200
6219 EE 6219 ZZ	108.0	157.0	2.10	2.8000
6319 EE 6319 ZZ	108.0	157.0	2.10	2.6700
61820 EE 61820 ZZ	105.4	119.6	1.00	0.3100
6020 EE 6020 ZZ	108.0	142.0	1.50	1.2600
6220 EE 6220 ZZ	113.0	167.0	2.10	3.1200
6320 EE 6320 ZZ	113.0	167.0	2.10	3.1870

## Single-row radial ball bearings (continued)

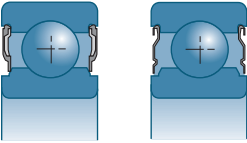


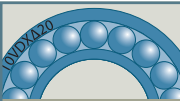

d		D	B				
				10°N	10°N	rpm EE/2RS*	rpm ZZ*
mm	References	mm	mm				
<b>105</b>	61821 EE 61821 ZY 6021 EE	130 160	13 26	20.8 72	23.6 66	2800 2400	4600
<b>110</b>	61822 EE 61822 ZY 6022 EE	140 170	16 28	28 82	30.5 73	2600 2300	4300
<b>120</b>	61824 EE 61824 ZY 6024 EE	150 180	16 28	29 85	33 79	2400 2200	4000
<b>130</b>	61826 2RS 61826 ZZ	165	18	38	43	2000	3600
<b>140</b>	61828 2RS 61828 ZZ 6028 EE	175 210	18 33	39 109	46 107	1850 2800	3400
<b>160</b>	6032 EE	240	38	137	135	2500	

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

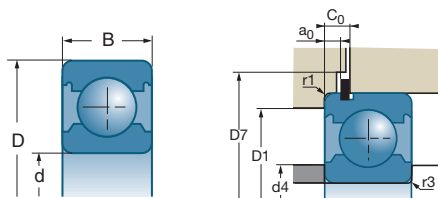


■ Sealed and shielded bearing (continued)



	d3 min	D1 max	r1 max	
References	mm	mm	mm	kg
61821 EE 61821 ZZY 6021 EE	110.4 114.0	124.6 151.0	1.00 2.00	0.3300 1.5900
61822 EE 61822 ZZY 6022 EE	115.4 119.0	134.6 161.0	1.00 2.00	0.5000 1.4900
61824 EE 61824 ZZY 6024 EE	125.4 129.0	144.6 171.0	1.00 2.00	0.5500 2.1400
61826 2RS 61826 2Z	137.6	157.4	1.10	0.7800
61828 2RS 61828 2Z 6028 EE	147.6 149.0	167.4 201.0	1.10 2.00	0.8300 3.6500
6032 EE	170.0	230.0	2.10	6.3000

## Single-row radial ball bearings (continued)

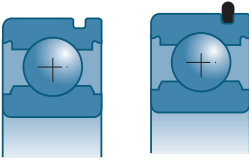


d			D	B					a <sub>0</sub> min	a <sub>0</sub> max
	mm	References			mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N		
<b>10</b>	6200 N	6200 NR	30	9	6	2.65	23000	27000	1.9	2.06
<b>12</b>	6201 N	6201 NR	32	10	6.9	3.1	21000	25000	1.9	2.06
<b>15</b>	6002 N	6002 NR	32	9	5.6	2.85	21000	26000	1.9	2.06
	6202 N	6202 NR	35	11	7.7	3.75	19000	22000	1.9	2.06
<b>17</b>	6003 N	6003 NR	35	10	6	3.25	19000	23000	1.9	2.06
	6203 N	6203 NR	40	12	9.5	4.75	16000	19000	1.9	2.06
<b>20</b>	6004 N	6004 NR	42	12	9.4	5	16000	20000	1.9	2.06
	6204 N	6204 NR	47	14	12.8	6.6	14000	16000	2.31	2.46
	6304 N	6304 NR	52	15	15.9	7.9	12000	15000	2.31	2.46
<b>25</b>	6005 N	6005 NR	47	12	10.1	5.8	14000	18000	1.9	2.06
	6205 N	6205 NR	52	15	14	7.9	12000	14000	2.31	2.46
	6305 N	6305 NR	62	17	23.6	12.1	10000	13000	3.07	3.28
<b>30</b>	6006 N	6006 NR	55	13	13.2	8.3	12000	15000	1.88	2.08
	6206 N	6206 NR	62	16	19.5	11.3	10000	12000	3.07	3.28
	6306 N	6306 NR	72	19	28	15.8	8900	10000	3.07	3.28
<b>35</b>	6007 N	6007 NR	62	14	16	10.3	10000	12000	1.88	2.08
	6207 N	6207 NR	72	17	25.5	15.3	8700	10000	3.07	3.28
	6307 N	6307 NR	80	21	33.5	19.2	8000	9800	3.07	3.28
<b>40</b>	6008 N	6008 NR	68	15	16.8	11.5	9200	11000	2.29	2.49
	6208 N	6208 NR	80	18	29	17.9	7800	9100	3.07	3.28
	6308 N	6308 NR	90	23	40.5	23.9	7200	8800	3.07	3.28
	6408 N	6408 NR	110	27	63	36.5	6200	7600	3.07	3.28
<b>45</b>	6009 N	6009 NR	75	16	21	15.2	8300	10000	2.29	2.49
	6209 N	6209 NR	85	19	32.5	20.5	7300	8800	3.07	3.28
	6309 N	6309 NR	100	25	53	31.5	6400	7800	3.07	3.28
	6409 N	6409 NR	120	29	77	45	5600	6900	3.86	4.06
<b>50</b>	6010 N	6010 NR	80	16	21.8	16.6	7600	9400	2.29	2.49
	6210 N	6210 NR	90	20	35	23.2	6900	8200	3.07	3.28
	6310 N	6310 NR	110	27	62	38	5800	7100	3.07	3.28

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

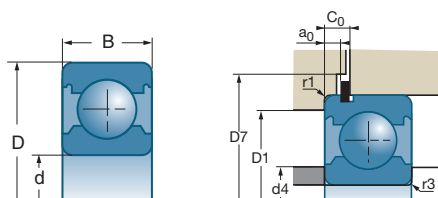


■ Bearing with groove or groove and snap ring



References		c0 min	c0 max	d4 min	D1 max	D7 min	r3 max	r1 max	snap ring	kg
6200 N 6200 NR		2.92	3.18	14.0	26.0	36	0.6	0.6	R 30	0.033
6201 N 6201 NR		2.92	3.18	16.0	28.0	38	0.6	0.6	R 32	0.039
6002 N 6002 NR		2.92	3.18	17.0	30.0	38	0.3	0.3	R 32	0.030
6202 N 6202 NR		2.92	3.18	19.0	31.2	41	0.6	0.6	R 35	0.045
6003 N 6003 NR		2.92	3.18	19.0	33.0	41	0.3	0.3	R 35	0.039
6203 N 6203 NR		2.92	3.18	21.0	36.0	46	0.6	0.6	R 40	0.065
6004 N 6004 NR		2.92	3.18	24.0	38.0	47.5	0.6	0.5	R 42	0.068
6204 N 6204 NR		3.33	3.58	26.0	41.3	54	1	0.6	R 47	0.106
6304 N 6304 NR		3.33	3.58	27.0	45.0	59	1.1	0.6	R 52	0.145
6005 N 6005 NR		2.92	3.18	29.0	43.0	54	0.6	0.5	R 47	0.080
6205 N 6205 NR		3.33	3.58	31.0	46.5	59	1	0.5	R 52	0.126
6305 N 6305 NR		4.67	4.98	32.0	55.0	69	1.1	0.6	R 62	0.225
6006 N 6006 NR		2.9	3.2	35.0	50.0	62	1	0.5	R 55	0.116
6206 N 6206 NR		4.67	4.98	36.0	56.0	69	1	0.5	R 62	0.199
6306 N 6306 NR		4.67	4.98	37.0	65.0	80	1.1	0.6	R 72	0.346
6007 N 6007 NR		3.48	3.78	40.0	57.0	69	1	0.5	R 62	0.153
6207 N 6207 NR		4.67	4.98	42.0	65.0	80	1.1	0.5	R 72	0.285
6307 N 6307 NR		4.67	4.98	44.0	71.0	88	1.5	0.5	R 80	0.446
6008 N 6008 NR		3.89	4.19	45.0	63.0	76	1	0.6	R 68	0.192
6208 N 6208 NR		4.67	4.98	47.0	73.0	88	1.1	0.5	R 80	0.373
6308 N 6308 NR		5.43	5.74	49.0	81.0	97.5	1.5	0.6	R 90	0.625
6408 N 6408 NR		5.43	5.74	52.0	98.0	118	2	0.6	R 110	1.214
6009 N 6009 NR		3.89	4.19	50.0	70.0	83	1	0.6	R 75	0.244
6209 N 6209 NR		4.67	4.98	52.0	78.0	93	1.1	0.5	R 85	0.404
6309 N 6309 NR		5.43	5.74	54.0	91.0	108	1.5	0.5	R 100	0.825
6409 N 6409 NR		6.58	6.88	57.0	108.0	131	2	0.6	R 120	1.513
6010 N 6010 NR		3.89	4.19	55.0	75.0	88	1	0.5	R 80	0.267
6210 N 6210 NR		5.43	5.74	57.0	83.0	97.5	1.1	0.6	R 90	0.439
6310 N 6310 NR		5.43	5.74	61.0	99.0	118	2	0.6	R 110	1.070

## Single-row radial ball bearings (continued)

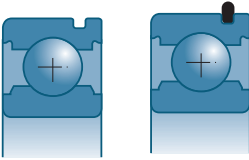


d			D	B					a0 min	a0 max
	mm	References			mm	mm	10°N	10°N		
<b>55</b>	6011 N	6011 NR	90	18	28.5	21.3	6800	8500	2.67	2.87
	6211 N	6211 NR	100	21	43.5	29	6200	7400	3.07	3.28
	6311 N	6311 NR	120	29	71	44.5	5200	6500	3.86	4.06
	6411 N	6411 NR	140	33	100	62	4800	5800	4.65	4.9
<b>60</b>	6212 N	6212 NR	110	22	52	36	5600	6800	3.07	3.28
	6312 N	6312 NR	130	31	82	52	4800	5900	3.86	4.06
<b>65</b>	6013 N	6013 NR	100	18	30.5	25	6100	7500	2.67	2.87
	6213 N	6213 NR	120	23	57	40	5100	6200	3.86	4.06
	6313 N	6313 NR	140	33	93	60	4500	5600	4.65	4.9
<b>70</b>	6014 N	6014 NR	110	20	38	31	5500	6800	2.67	2.87
<b>85</b>	6017 N	6017 NR	130	22	49.5	43	4700	5800	2.67	2.87
	6217 N	6217 NR	150	28	83	64	4100	4900	4.65	4.9
<b>90</b>	6018 N	6018 NR	140	24	58	49.5	4300	5300	3.45	3.71
<b>100</b>	6020 N	6020 NR	150	24	60	54	4000	4900	3.45	3.71
<b>120</b>	6024 N	6024 NR	180	28	85	79	3300	4100	3.45	3.71

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



■ Bearing with groove or groove and snap ring (*continued*)



References		c0 min	c0 max	d4 min	D1 max	D7 min	r3 max	r1 max	snap ring	kg
6011 N	6011 NR	5.03	5.33	61.0	84.0	97.5	1.1	0.6	R 90	0.388
6211 N	6211 NR	5.43	5.74	64.0	91.0	107.5	1.5	0.6	R 100	0.598
6311 N	6311 NR	6.58	6.88	66.0	109.0	131	2	0.5	R 120	1.380
6411 N	6411 NR	7.37	7.72	69.0	126.0	151	2.1	0.6	R 140	2.283
6212 N	6212 NR	5.43	5.74	69.0	101.0	118	1.5	0.6	R 110	0.763
6312 N	6312 NR	6.58	6.88	73.0	117.0	141	2.1	0.6	R 130	1.685
6013 N	6013 NR	5.03	5.33	71.0	94.0	107.5	1.1	0.6	R 100	0.432
6213 N	6213 NR	6.58	6.88	74.0	111.0	131	1.5	0.5	R 120	0.990
6313 N	6313 NR	7.37	7.72	78.0	127.0	151	2.1	0.6	R 140	2.060
6014 N	6014 NR	5.03	5.33	76.0	104.0	117.5	1.1	0.5	R 110	0.610
6017 N	6017 NR	5.39	5.69	91.0	124.0	141	1.1	0.6	R 130	0.879
6217 N	6217 NR	7.37	7.72	96.0	139.0	161	2	0.6	R 150	1.776
6018 N	6018 NR	6.17	6.53	98.0	132.0	151	1.5	0.6	R 140	1.175
6020 N	6020 NR	6.17	6.53	108.0	142.0	161	1.5	0.6	R 150	1.260
6024 N	6024 NR	6.45	6.81	129.0	171.0	194	2	0.6	R 180	2.100

## Stainless Steel ball bearings

### Definition and capabilities

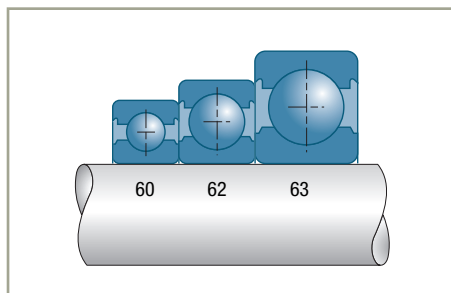
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This bearing family combines high corrosion resistance and a load capacity which matches that of standard steel bearings: it is the ideal solution for machines operated in corrosive environments such as:

- Farming industry, pharmaceutical and chemical sector
- Others, such as paper mills, engines, pumps, naval application, etc.

### Series

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## Variations

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All SNR single-row ball bearings made of stainless steel display the prefix S (referring to the steel used) and the suffix 2RS (indicative of standard, dual seal version).

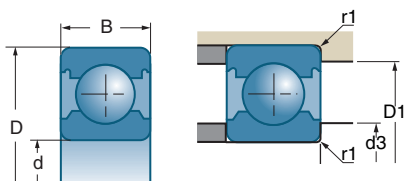
There are two variations for these series, depending on whether the bearings are lubricated with standard grease or with a food-compatible grease (suffix D136).

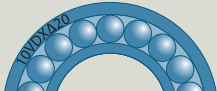


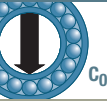
## Suffixes

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<b>2RS</b>	Two-side sealing
<b>D136</b>	Food grade grease

## Stainless Steel ball bearings (continued)



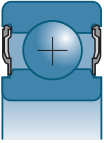
d		D	B			
mm	References	mm	mm	rpm*	10°N	10°N
<b>10</b>	S6000 2RS S6000 2RSD136	26	8	18000	4.55	1.96
	S6200 2RS S6200 2RSD136	30	9	15000	5.10	2.39
	S6300 2RS S6300 2RSD136	35	11	13000	8.10	3.45
<b>12</b>	S6001 2RS S6001 2RSD136	28	8	16000	5.10	2.39
	S6201 2RS S6201 2RSD136	32	10	14000	6.10	2.80
	S6301 2RS S6301 2RSD136	37	12	12000	9.70	4.20
<b>15</b>	S6002 2RS S6002 2RSD136	32	9	14000	5.60	2.85
	S6202 2RS S6202 2RSD136	35	11	12000	7.60	3.70
	S6302 2RS S6302 2RSD136	42	13	10000	11.40	5.40
<b>17</b>	S6003 2RS S6003 2RSD136	35	10	12000	6.00	3.25
	S6203 2RS S6203 2RSD136	40	12	11000	9.60	4.80
	S6303 2RS S6303 2RSD136	47	14	9300	13.60	6.60
<b>20</b>	S6004 2RS S6004 2RSD136	42	12	10000	9.40	5.10
	S6204 2RS S6204 2RSD136	47	14	9200	12.80	6.70
	S6304 2RS S6304 2RSD136	52	15	8600	15.90	7.90
<b>25</b>	S6005 2RS S6005 2RSD136	47	12	9200	10.10	5.90
	S6205 2RS S6205 2RSD136	52	15	8200	14.00	7.90
	S6305 2RS S6305 2RSD136	62	17	6900	20.60	11.20
<b>30</b>	S6006 2RS S6006 2RSD136	55	13	7800	13.20	8.30
	S6206 2RS S6206 2RSD136	62	16	6800	19.50	11.30
<b>35</b>	S6007 2RS S6007 2RSD136	62	14	6800	16.00	10.30
	S6207 2RS S6207 2RSD136	72	17	5800	25.50	15.40
<b>40</b>	S6008 2RS S6008 2RSD136	68	15	6100	16.80	11.50
	S6208 2RS S6208 2RSD136	80	18	5300	29.00	17.90

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



# Characteristics

## ■ Stainless steel ball bearings



		d3 min	D1 max	r1 max	
References		mm	mm	mm	kg
S6000 2RS	S6000 2RSD136	12.0	24.0	0.3	0.019
S6200 2RS	S6200 2RSD136	14.0	26.0	0.6	0.032
S6300 2RS	S6300 2RSD136	14.0	31.0	0.6	0.053
S6001 2RS	S6001 2RSD136	14.0	26.0	0.3	0.022
S6201 2RS	S6201 2RSD136	16.0	28.0	0.6	0.032
S6301 2RS	S6301 2RSD136	17.9	31.5	1	0.060
S6002 2RS	S6002 2RSD136	17.0	30.0	0.3	0.030
S6202 2RS	S6202 2RSD136	19.0	31.2	0.6	0.045
S6302 2RS	S6302 2RSD136	21.0	36.3	1	0.082
S6003 2RS	S6003 2RSD136	19.0	33.0	0.3	0.039
S6203 2RS	S6203 2RSD136	21.0	36.0	0.6	0.065
S6303 2RS	S6303 2RSD136	23.0	41.0	1	0.115
S6004 2RS	S6004 2RSD136	24.0	38.0	0.6	0.069
S6204 2RS	S6204 2RSD136	26.0	41.3	1	0.106
S6304 2RS	S6304 2RSD136	27.0	45.0	1.1	0.144
S6005 2RS	S6005 2RSD136	29.0	43.0	0.6	0.080
S6205 2RS	S6205 2RSD136	31.0	46.5	1	0.128
S6305 2RS	S6305 2RSD136	32.0	55.0	1.1	0.232
S6006 2RS	S6006 2RSD136	35.0	50.0	1	0.116
S6206 2RS	S6206 2RSD136	36.0	56.0	1	0.199
S6007 2RS	S6007 2RSD136	40.0	57.0	1	0.155
S6207 2RS	S6207 2RSD136	42.0	65.0	1.1	0.275
S6008 2RS	S6008 2RSD136	45.0	63.0	1	0.191
S6208 2RS	S6208 2RSD136	47.0	73.0	1.1	0.366

## Bearing for special applications

### Definitions and capabilities

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Amongst multiple industrial applications, in some tangible cases, bearings must operate in a particular environment, as is the case with kiln car wheels. However, certain conditions are often encountered, such as high or very high temperatures, low temperatures or high speeds. SNR is aware of the difficulty, for users, to procure single-row ball bearings capable of such conditions, and therefore created the **TOPLINE Range**. As standard, this range offers bearing designs which were previously considered as specific, therefore introducing significant delivery-time and costs-savings advantages.

### Series

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- **FT series:** for operation up to 150° C (300°F) peak (and up to 500 000 N.Dm) 6000, 6200, 6300 series
  - So-called « high temperature » (-40°C/ -40°F to +200°C/ +400°F) seals made of Viton for the FT 150 series, providing excellent resistance to chemical agents and permitting high speed rotation, highly effective against outside contamination.
  - Pressed-steel shields for the FT150 ZZ series, no bearing operating speed limitation.
  - J30: (C3) increased clearance (Category 3) to compensate for variations in temperatures.
  - Grease specifically tested and selected for high temperatures.
  - Pressed-steel cage, no limitations for bearing operating temperature.
  
- **HT series:** for operation up to 200° C (400°F) peak (and up to 150 000 N.Dm) 6200, 6300 series
  - Viton seals for the HT200 series (- 40° C to + 200° C).
  - Pressed-steel shields for the HT200 ZZ series.
  - Special heat treat providing metallurgical stability for operating temperatures up to + 200°C (400°F).
  - J40 (C4): increased internal clearance (Category 4) to compensate for variations in temperatures.
  - Pressed-steel cage.
  - Grease specifically tested and selected for very high temperatures.
  
- **LT series:** for operation up to -60° C (-75°F) (and up to 500 000 N.Dm) 6000, 6200 series
  - Nitrile rubber seal (- 40° C/ -40°F up to + 110° C/ +230°F) for the LT series.
  - Pressed-steel shields for the LT ZZ series.
  - Pressed-steel cage.
  - J30 (C3): increased internal clearance (Category3) to compensate for variations in temperature.
  - Grease specifically tested and selected for low temperatures and damp atmosphere.



- **HV series:** for operation up to 700 000 N.Dm 6000, 6200 series
  - High precision bearing that meet DIN P6 or ISO 6 standards for high accuracy.
  - High precision balls: grade 10. Grade 10 is the 3rd most stringent grade in the classification of rolling elements (in the order: grade 3, 5, 10, 16, etc.). Very high surface finish quality.
  - Improved internal geometry with tight tolerances.
  - Glass-fiber reinforced polyamide cage provides accurate guidance of rolling elements for improved capabilities at high speed.
  - Pressed-steel shields.
  - Grease specifically tested and selected for very high speeds and low torque.
- **F600 series:** for operation up to 350° C (660°F) and below 50 rpm. 6000, 6200, 6300 series

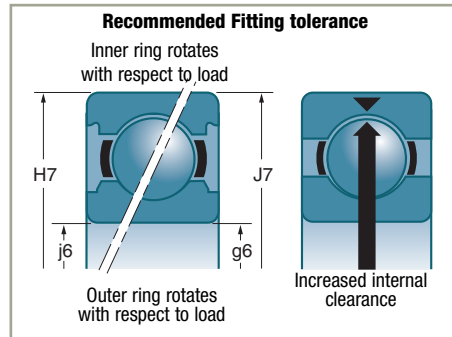
- **Large radial clearance**

This clearance is sufficient to compensate for differential thermal expansion between the inner and outer rings of the bearing and for the expansion of surrounding parts.

- **Heat treatment** with stabilization tempering. Beyond 110-120° C (230°F -250°F), steel undergoes a structural change resulting in a decrease of its specific volume. To limit this phenomenon, SNR F600 bearings are subject to a special high-temperature tempering.

- **Pressed steel cage**

- **Recessed markings on both rings:** this marking process allows maintaining the proper identification of any bearings at all times regardless of operating conditions.



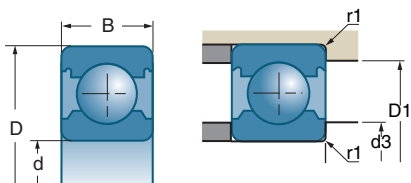
## Variations

- **FT, HT and LT:** the basic design for each one of these families is the dual sealing. A dual protected variation is also available: ZZ.
- **F600:** as basic design is open and with surface treatment by phosphating and molybdenum disulfide deposit, variations are available with 1 or 2 shields along with a high temperature lubrication paste.

## Tolerances and clearances

- **FT, LT:** manufactured in normal tolerance class and increased clearance class C3.
- **HT:** manufactured in normal tolerance class and increased clearance class C4.
- **HV:** manufactured with high precision balls and in tolerance class that meets ISO 6 standards for high accuracy. Clearance class C3.
- **F600:** manufactured in special clearance class, up to C5 defined by the standards.

## Bearing for special applications (continued)



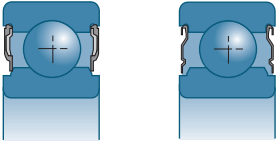
d			D	B				
					rpm EE*	rpm ZZ*	10 <sup>3</sup> N	10 <sup>3</sup> N
mm	References		mm	mm				
<b>8</b>	608 FT150		22	7	22000		3.3	1.36
<b>10</b>	6000 FT150	6000 FT150ZZ	26	8	18000	27000	4.6	1.97
		6000 HVZZ	26	8		38800	4.6	1.97
	6000 LT	6000 LTZZ	26	8	19000	28000	4.6	1.97
		6200 FT150ZZ	30	9		24000	6	2.65
	6200 LT	6200 LTZZ	30	9	16000	23000	6	2.65
	6300 FT150ZZ		35	11		22000	8.1	3.45
<b>12</b>	6001 FT150	6001 FT150ZZ	28	8	16000	25000	5.1	2.37
		6001 HVZZ	28	8		35000	5.1	2.37
	6001 LT	6001 LTZZ	28	8	17000	25000	5.1	2.37
	6201 FT150	6201 FT150ZZ	32	10	15000	22000	6.9	3.1
		6201 HT200ZZ	32	10		6800	6.9	3.1
		6201 HVZZ	32	10		31800	6.9	3.1
	6201 LT	6201 LTZZ	32	10	15000	22000	6.9	3.1
		6301 FT150ZZ		37	12		20000	9.7
<b>15</b>	6002 FT150	6002 FT150ZZ	32	9	14000	21000	5.6	2.85
		6002 HVZZ	32	9		29700	5.6	2.85
	6002 LT	6002 LTZZ	32	9	14000	21000	5.6	2.85
	6202 FT150	6202 FT150ZZ	35	11	13000	19000	7.7	3.75
		6202 HT200ZZ	35	11		5900	7.7	3.75
		6202 HVZZ	35	11		28000	7.7	3.75
	6202 LT	6202 LTZZ	35	11	13000	19000	7.7	3.75
		6302 FT150ZZ		42	13		17000	11.3
<b>17</b>	6003 FT150	6003 FT150ZZ	35	10	12000	19000	6	3.25
		6003 HVZZ	35	10		26900	6	3.25
	6003 LT	6003 LTZZ	35	10	13000	19000	6	3.25
	6203 FT150	6203 FT150ZZ	40	12	11000	17000	9.5	4.75
		6203 HT200ZZ	40	12		5200	9.5	4.75
		6203 HVZZ	40	12		24500	9.5	4.75
	6203 LT	6203 LTZZ	40	12	11000	17000	9.5	4.75
	6303 FT150	6303 FT150ZZ	47	14	10000	15000	13.6	6.6

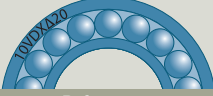

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



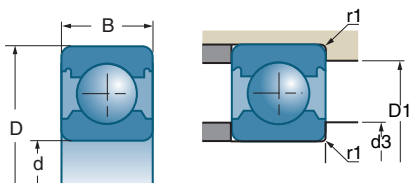
# Characteristics

## ■ TOPLINE bearing for special applications



		d3 min	D1 max	r1 max	
References		mm	mm	mm	kg
608 FT150		10.0	20.0	0.3	0.012
6000 FT150	6000 FT150ZZ	12.0	24.0	0.3	0.019
	6000 HVZZ	12.0	24.0	0.3	0.019
6000 LT	6000 LTZZ	12.0	24.0	0.3	0.019
	6200 FT150ZZ	14.0	26.0	0.6	0.033
6200 LT	6200 LTZZ	14.0	26.0	0.6	0.033
	6300 FT150ZZ	14.0	31.0	0.6	0.053
6001 FT150	6001 FT150ZZ	14.0	26.0	0.3	0.022
	6001 HVZZ	14.0	26.0	0.3	0.022
6001 LT	6001 LTZZ	14.0	26.0	0.3	0.022
6201 FT150	6201 FT150ZZ	16.0	28.0	0.6	0.037
	6201 HT200ZZ	16.0	28.0	0.6	0.035
	6201 HVZZ	16.0	28.0	0.6	0.037
6201 LT	6201 LTZZ	16.0	28.0	0.6	0.037
	6301 FT150ZZ	17.9	31.5	1	0.060
6002 FT150	6002 FT150ZZ	17.0	30.0	0.3	0.030
	6002 HVZZ	17.0	30.0	0.3	0.030
6002 LT	6002 LTZZ	17.0	30.0	0.3	0.030
6202 FT150	6202 FT150ZZ	19.0	31.2	0.6	0.046
	6202 HT200ZZ	19.0	31.2	0.6	0.044
	6202 HVZZ	19.0	31.2	0.6	0.045
6202 LT	6202 LTZZ	19.0	31.2	0.6	0.045
	6302 FT150ZZ	21.0	36.3	1	0.083
6003 FT150	6003 FT150ZZ	19.0	33.0	0.3	0.039
	6003 HVZZ	19.0	33.0	0.3	0.039
6003 LT	6003 LTZZ	19.0	33.0	0.3	0.039
6203 FT150	6203 FT150ZZ	21.0	36.0	0.6	0.068
	6203 HT200ZZ	21.0	36.0	0.6	0.065
	6203 HVZZ	21.0	36.0	0.6	0.065
6203 LT	6203 LTZZ	21.0	36.0	0.6	0.065
6303 FT150	6303 FT150ZZ	23.0	41.0	1	0.113

## Bearing for special applications (continued)



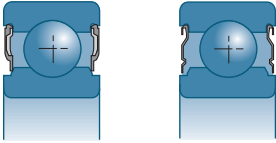
d			D	B					
					rpm EE*	rpm ZZ*	10°N	10°N	
mm	References		mm	mm					
<b>20</b>	6004 FT150	6004 FT150ZZ	42	12	10000	16000	9.4	5	
	6004 HT200	6004 HVZZ	42	12	4800	22500	9.4	5	
	6004 LT	6004 LTZZ	42	12	10000	16000	9.4	5	
	6204 FT150	6204 FT150ZZ	47	14	9900	14000	12.8	6.6	
	6204 HT200	6204 HT200ZZ	47	14	4400	4400	12.8	6.6	
		6204 HVZZ	47	14		20800	12.8	6.6	
	6204 LT	6204 LTZZ	47	14	9300	14000	12.8	6.6	
	6304 FT150	6304 FT150ZZ	52	15	9200	13000	15.9	7.9	
	6304 HT200	6304 HT200ZZ	52	15	4100	4100	15.9	7.9	
		6304 LTZZ	52	15		12000	15.9	7.9	
	<b>25</b>	6005 FT150	6005 FT150ZZ	47	12	9300	14000	10.1	5.8
			6005 HVZZ	47	12		19400	10.1	5.8
6005 LT		6005 LTZZ	47	12	9300	14000	10.1	5.8	
6205 FT150		6205 FT150ZZ	52	15	8500	12000	14	7.9	
6205 HT200		6205 HT200ZZ	52	15	3800	3800	14	7.9	
		6205 HVZZ	52	15		18100	14	7.9	
6205 LT		6205 LTZZ	52	15	8200	12000	14	7.9	
6305 FT150		6305 FT150ZZ	62	17	7600	11000	23.6	12.1	
6305 HT200		6305 HT200ZZ	62	17	3400	3400	23.6	12.1	
<b>30</b>		6006 FT150	6006 FT150ZZ	55	13	7800	11000	13.2	8.3
		6006 HVZZ	55	13		16400	13.2	8.3	
	6006 LT	6006 LTZZ	55	13	7800	12000	13.2	8.3	
	6206 FT150	6206 FT150ZZ	62	16	7200	10000	19.5	11.3	
	6206 HT200	6206 HT200ZZ	62	16	3200	3200	19.5	11.3	
		6206 HVZZ	62	16		15200	19.5	11.3	
	6206 LT	6206 LTZZ	62	16	7000	10000	19.5	11.3	
	6306 FT150	6306 FT150ZZ	72	19	6400	9600	28	15.8	
	6306 HT200	6306 HT200ZZ	72	19	2900	2900	28	15.8	
	<b>35</b>	6007 FT150	6007 FT150ZZ	62	14	6800	10000	16	10.3
		6007 HVZZ	62	14		16400	16	10.3	
		6007 LTZZ	62	14		10000	16	10.3	
6207 FT150		6207 FT150ZZ	72	17	6200	9300	25.5	15.3	
6207 HT200		6207 HT200ZZ	72	17	2800	2800	25.5	15.3	
		6207 HVZZ	72	17		13000	25.5	15.3	
6307 FT150		6307 FT150ZZ	80	21	5700	8600	33.5	19.2	
6307 HT200		6307 HT200ZZ	80	21	5300	2600	33.5	19.1	


\* These are the speed limits according to the SNR concept (see pages 85 to 87).



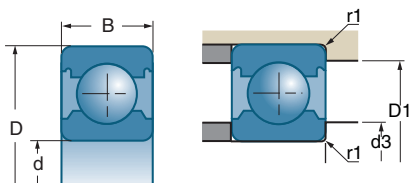


■ TOPLINE bearing for special applications (continued)



References		d3 min	D1 max	r1 max	
		mm	mm	mm	kg
6004 FT150	6004 FT150ZZ	24.0	38.0	0.6	0.068
6004 HT200	6004 HVZZ	24.0	38.0	0.6	0.070
6004 LT	6004 LTZZ	24.0	38.0	0.6	0.068
6204 FT150	6204 FT150ZZ	26.0	41.3	1	0.107
6204 HT200	6204 HT200ZZ	26.0	41.3	1	0.107
	6204 HVZZ	26.0	41.3	1	0.107
6204 LT	6204 LTZZ	26.0	41.3	1	0.107
6304 FT150	6304 FT150ZZ	27.0	45.0	1.1	0.147
6304 HT200	6304 HT200ZZ	27.0	45.0	1.1	0.147
	6304 LTZZ	27.0	45.0	1.1	0.135
6005 FT150	6005 FT150ZZ	29.0	43.0	0.6	0.077
	6005 HVZZ	29.0	43.0	0.6	0.077
6005 LT	6005 LTZZ	29.0	43.0	0.6	0.077
6205 FT150	6205 FT150ZZ	31.0	47.0	1	0.128
6205 HT200	6205 HT200ZZ	31.0	47.0	1	0.128
	6205 HVZZ	31.0	47.0	1	0.128
6205 LT	6205 LTZZ	31.0	47.0	1	0.128
6305 FT150	6305 FT150ZZ	32.0	55.0	1.1	0.225
6305 HT200	6305 HT200ZZ	32.0	55.0	1.1	0.225
6006 FT150	6006 FT150ZZ	35.0	50.0	1	0.116
	6006 HVZZ	35.0	50.0	1	0.116
6006 LT	6006 LTZZ	35.0	50.0	1	0.116
6206 FT150	6206 FT150ZZ	36.0	56.0	1	0.199
6206 HT200	6206 HT200ZZ	36.0	56.0	1	0.199
	6206 HVZZ	36.0	56.0	1	0.199
6206 LT	6206 LTZZ	36.0	56.0	1	0.199
6306 FT150	6306 FT150ZZ	37.0	65.0	1.1	0.346
6306 HT200	6306 HT200ZZ	37.0	65.0	1.1	0.346
6007 FT150	6007 FT150ZZ	40.0	57.0	1	0.153
	6007 HVZZ	40.0	57.0	1	0.153
	6007 LTZZ	40.0	57.0	1	0.153
6207 FT150	6207 FT150ZZ	42.0	65.0	1.1	0.285
6207 HT200	6207 HT200ZZ	42.0	65.0	1.1	0.280
	6207 HVZZ	42.0	65.0	1.1	0.285
6307 FT150	6307 FT150ZZ	44.0	71.0	1.5	0.446
6307 HT200	6307 HT200ZZ	44.0	71.0	1.5	0.445

## Bearing for special applications (continued)

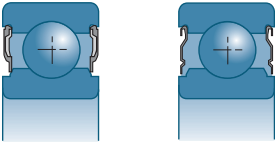


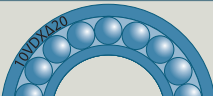

d	References		D	B	Lubrication		10 <sup>6</sup> N	10 <sup>6</sup> N
					rpm EE*	rpm ZZ*		
<b>40</b>	6008 FT150 6008 HT200	6008 FT150ZZ 6008 HVZZ	68 68 68	15 15 15	6100 2700	9200 12000	16.8 16.8 16.8	11.5 11.5 11.5
	6208 FT150 6208 HT200	6208 FT150ZZ 6208 HT200ZZ 6208 HVZZ	80 80 80	18 18 18	5500 2500	8300 2500 11600	29 29 29	17.9 17.9 17.9
	6308 FT150 6308 HT200	6308 FT150ZZ 6308 HT200ZZ 6308 HVZZ	90 90 90	23 23 23	5100 2300	7600 2300 10000	40.5 40.5 40.5	23.9 23.9 23.9
<b>45</b>	6009 FT150 6209 FT150 6209 HT200	6009 FT150ZZ 6209 FT150ZZ 6209 HT200ZZ 6209 HVZZ	75 85 85 85	16 19 19 19	5500 5100 2300	8300 7600 2300 10000	21 32.5 32.5 32.5	15.2 20.5 20.5 20.5
	6309 FT150 6309 HT200	6309 FT150ZZ 6309 HT200ZZ	100 100	25 25	4200 2000	6800 2000	53 53	31.5 31.5
<b>50</b>	6010 FT150 6210 FT150 6210 HT200	6010 FT150ZZ 6210 FT150ZZ 6210 HT200ZZ 6210 HVZZ	80 90 90 90	16 20 20 20	5000 4500 2100	7600 7100 2000 10000	21.8 35 35 35	16.6 23.2 23.2 23.2
	6310 FT150 6310 HT200	6310 FT150ZZ 6310 HT200ZZ	110 110	27 27	4000 1800	6000 1800	62 62	38 38
<b>55</b>		6011 HVZZ	90	18		9600	28.5	21.3
<b>65</b>	6013 FT150		100	18	4000		30.5	25
<b>65</b>	6213 FT150		120	23	3600		57	40

\* These are the speed limits according to the SNR concept (see pages 85 to 87).

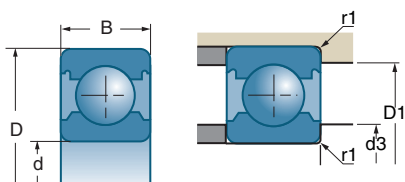


■ TOPLINE bearing for special applications (continued)



		d3 min	D1 max	r1 max	
References		mm	mm	mm	kg
6008 FT150	6008 FT150ZZ	45.0	63.0	1	0.192
6008 HT200		45.0	63.0	1	0.192
	6008 HVZZ	45.0	63.0	1	0.192
6208 FT150	6208 FT150ZZ	47.0	73.0	1.1	0.373
6208 HT200	6208 HT200ZZ	47.0	73.0	1.1	0.370
	6208 HVZZ	47.0	73.0	1.1	0.364
6308 FT150	6308 FT150ZZ	49.0	81.0	1.5	0.612
6308 HT200	6308 HT200ZZ	49.0	81.0	1.5	0.640
	6308 HVZZ	49.0	81.0	1.5	0.612
6009 FT150	6009 FT150ZZ	50.0	70.0	1	0.243
6209 FT150	6209 FT150ZZ	52.0	78.0	1.1	0.404
6209 HT200	6209 HT200ZZ	52.0	78.0	1.1	0.404
	6209 HVZZ	52.0	78.0	1.1	0.404
6309 FT150	6309 FT150ZZ	54.0	91.0	1.5	0.825
6309 HT200	6309 HT200ZZ	54.0	91.0	1.5	0.850
6010 FT150	6010 FT150ZZ	55.0	75.0	1	0.267
6210 FT150	6210 FT150ZZ	57.0	83.0	1.1	0.453
6210 HT200	6210 HT200ZZ	57.0	83.0	1.1	0.465
	6210 HVZZ	57.0	83.0	1.1	0.453
6310 FT150	6310 FT150ZZ	61.0	99.0	2	1.070
6310 HT200	6310 HT200ZZ	61.0	99.0	2	1.070
	6011 HVZZ	61.0	84.0	1.1	0.387
6013 FT150		71.0	94.0	1.1	0.454
6213 FT150		74.0	111.0	1.5	0.990

## Bearing for special applications (continued)

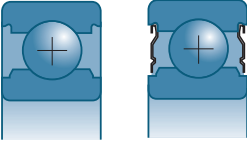


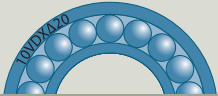

d				D	B			
<b>20</b>	6004 F600	6004 F604	6004 F605	42	12	50	9.40	5.00
	6204 F600	6204 F604	6204 F605	47	14	50	12.80	6.60
<b>25</b>	6205 F600	6205 F604	6205 F605	52	15	50	14.00	7.90
	6305 F600	6305 F604	6305 F605	62	17	50	23.70	12.20
<b>30</b>	6206 F600	6206 F604	6206 F605	62	16	50	19.50	11.30
	6306 F600	6306 F604	6306 F605	72	19	50	28.00	15.80
<b>35</b>	6007 F600	6007 F604	6007 F605	62	14	50	16.00	10.30
	6207 F600	6207 F604	620 7F605	72	17	50	25.50	15.30
<b>40</b>	6008 F600	6008 F604	6008 F605	68	15	50	17.40	11.50
	6208 F600	6208 F604	6208 F605	80	18	50	29.00	17.90
<b>45</b>	6209 F600	6209 F604	6209 F605	85	19	50	32.50	20.50
	6309 F600	6309 F604	6309 F605	100	25	50	53.00	31.50
<b>50</b>	6210 F600	6210 F604	6210 F605	90	20	50	35.00	23.20
	6310 F600		6310 F605	110	27	50	62.00	38.00
<b>55</b>	6211 F600	6211 F604	6211 F605	100	21	50	43.50	29.00
	6311 F600	6311 F604	6311 F605	120	29	50	71.00	44.50
<b>60</b>	6212 F600	6212 F604	6212 F605	110	22	50	52.00	36.00
<b>65</b>	6213 F600	6213 F604	6213 F605	120	23	50	57.00	40.00
<b>70</b>	6214 F600	6214 F604	6214 F605	125	24	50	62.00	44.00
<b>85</b>	6217 F600			150	28	50	83.00	64.00
<b>100</b>	6220 F600			180	34	50	122.00	93.00

\* These are the speed limits according to the SNR concept (see pages 85 to 87).



■ Bearing for very high temperatures or for kiln cars



			d3 min	D1 max	r1 max	
References			mm	mm	mm	kg
6004 F600	6004 F604	6004 F605	25.1	37.1	0.6	0.070
6204 F600	6204 F604	6204 F605	26.2	41.1	1.0	0.104
6205 F600	6205 F604	6205 F605	31.4	47	1.0	0.126
6305 F600	6305 F604	6305 F605	33	54	1.1	0.235
6206 F600	6206 F604	6206 F605	37	56	1.0	0.194
6306 F600	6306 F604	6306 F605	41.7	63.5	1.1	0.346
6007 F600	6007 F604	6007 F605	41.2	56.2	1.0	0.151
6207 F600	6207 F604	6207 F605	43.8	63.7	1.1	0.270
6008 F600	6008 F604	6008 F605	46.5	61.9	1.0	0.185
6208 F600	6208 F604	6208 F605	49.8	70.7	1.1	0.352
6209 F600	6209 F604	6209 F605	54.4	76.1	1.1	0.393
6309 F600	6309 F604	6309 F605	59.2	86.7	1.5	0.831
6210 F600	6210 F604	6210 F605	59.4	81.1	1.1	0.441
6310 F600		6310 F605	65.8	95.1	2.0	1.070
6211 F600	6211 F604	6211 F605	65.9	89.6	1.5	0.583
6311 F600	6311 F604	6311 F605	72.1	103.4	2.0	1.352
6212 F600	6212 F604	6212 F605	71	103	1.5	0.731
6213 F600	6213 F604	6213 F605	78.1	106.7	1.5	0.944
6214 F600	6214 F604	6214 F605	84	111.8	1.5	1.028
6217 F600			102.6	137.9	2.0	1.794
6220 F600			121.8	158.7	2.1	3.127

## Bearing-inserts

Single-row ball bearings with specific construction properties (outer and/or inner ring shape, attachment system ...)

### Bearing – inserts for self-aligning bearing units

#### → Definition and capabilities

Bearing inserts for self-aligning ball bearing units are essentially featured by a specific spherical outside diameter enables the bearing to adjust static misalignments in all directions. This self-alignment should only be necessary once, and must not occur permanently in operation.

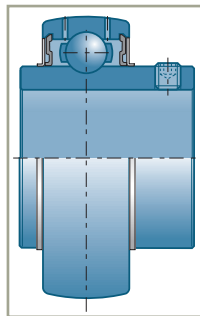
#### → Series

The internal design of bearing inserts correspond to the standard deep groove ball bearings of the 6200 and 6300 series. However, they have extended inner rings for easier fixing on shafts (exception CS200) or tapered bores for assembly with adapter sleeves.

All bearing inserts are sealed on both sides and are available with cylindrical or spherical outer rings (not for UK200H and inserts of 300 series).

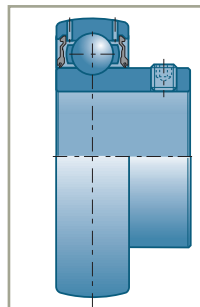
#### ■ UC200/UC300 series (spherical outer ring)

- Re-greasable
- Extended inner ring on both sides
- Fixing to shaft using set screws
- Optional design as floating bearing
- Seals on both sides with additional slingers
- Also available with triple lip seals
  
- SUC200/MUC..FD series: like UC200/UC300 series, version in stainless steel, filled with food grade grease



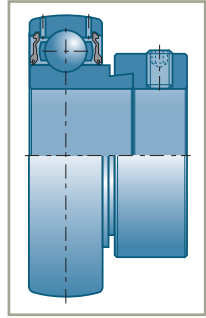
#### ■ US200 series (spherical outer ring)

- Re-greasable
- Extended inner ring on one side
- Fixing to shaft using set screws
- Optional design as floating bearing
- Seals on both sides



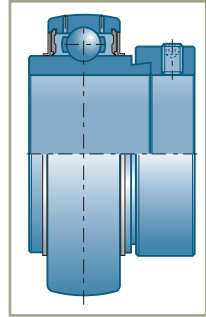
■ **ES200 series (spherical outer ring)**

- Re-greasable
- Extended inner ring on one side
- Fixing to shaft using eccentric locking collar
- Seals on both sides
  
- SES series: like ES200 series,  
version in stainless steel, filled with food grade grease



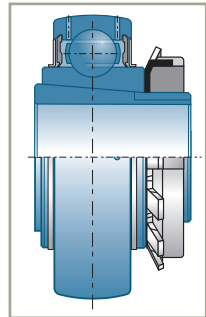
■ **EX200/EX300 series (spherical outer ring)**

- Re-greasable
- Extended inner ring on both sides
- Fixing to shaft using eccentric locking collar
- Seals on both sides with additional slingers
- Also available with triple lip seals



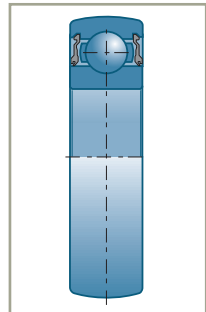
■ **UK200H/UK300H series (spherical outer ring)**

- Re-greasable
- Inner ring with tapered bore for mounting of adapter sleeve
- Fixing to shaft using adapter sleeve
- Seals on both sides with additional slingers
- Also available with triple lip seals



■ **CS200 series (spherical outer ring)**

- Not re-greasable
- Dimensions and tolerances like deep groove ball bearings series 62..
- Fixing to shaft using tight fit
- Seals on both sides



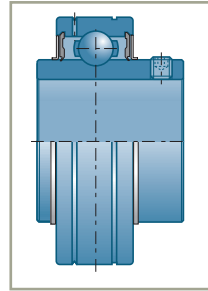
## Bearing-inserts (continued)

### Bearing-inserts with cylindrical outside diameter

#### → Series

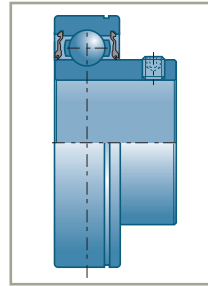
##### ■ CUC200 series (cylindrical outer ring)

- Groove in the outer ring for fixing within housing using retaining snap ring
- Lubrication groove in the outer ring with lubrication holes
- Otherwise, design like UC200



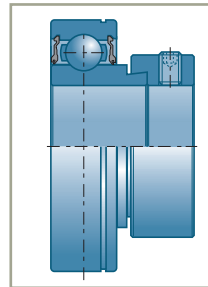
##### ■ CUS200 series (cylindrical outer ring)

- Not re-greasable
- Groove in the outer ring for fixing within housing using retaining snap ring
- Otherwise, design like US200



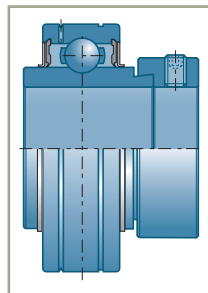
##### ■ CES200 series (cylindrical outer ring)

- Not re-greasable
- Groove in the outer ring for fixing within housing using retaining snap ring
- Otherwise, design like ES200



##### ■ CEX200 series (cylindrical outer ring)

- Groove in the outer ring for fixing within housing using retaining snap ring
- Lubrication groove in the outer ring with lubrication holes
- Otherwise, design like EX200







## Tolerances and clearances

Ball bearing inserts are manufactured according normal tolerance classes and standard bearings clearance groups:

- Standard temperature inserts (-20°C to 100°C) have a radial internal clearance to group 3.
- High and low temperature inserts (T20/T04) are produced according to group C4.

## Suffixes and prefixes

### ■ Prefixes

<b>SUC</b>	Stainless steel bearing inserts with set screws for use in stainless steel housings
<b>SES</b>	Stainless steel bearing inserts with eccentric locking collar for use in stainless steel housings
<b>MUC</b>	Stainless steel bearing inserts with set screws for use in thermoplastic housings

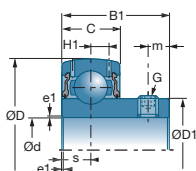
### ■ Suffixes

<b>C3</b>	Radial clearance group ISO 3
<b>C4</b>	Radial clearance group ISO 4
<b>G2</b>	Bearing inserts with SNR re-lubrication system (4 bores in outer diameter)
<b>H</b>	Bearing inserts equipped with adapter sleeves
<b>L3</b>	Bearing inserts equipped with 3-lip seal
<b>T04</b>	Bearing inserts for operating temperatures down to -40 °C (-40 °F)
<b>T20</b>	Bearing inserts for operating temperatures up to +200 °C (+400 °F)

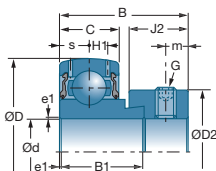


As components of self-aligning bearing units, bearing inserts are also listed by type just after the tables of self-aligning bearing units (from page 566).

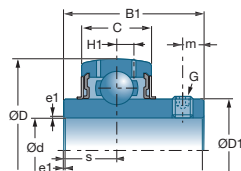
## Bearing-inserts (continued)




US



ES - SES



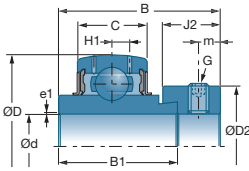
UC - SUC - MUC

d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
mm	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
12	US201G2		40,0	12,0	-	22,0	-	-	6,0	24,6	-
	ES201G2		40,0	12,0	28,6	19,1	-	13,5	6,5	-	27,2
	UC201G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX201G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
	SUC201		47,0	17,0	-	31,0	-	-	12,7	-	-
	SES201		40,0	12,0	28,6	19,1	-	-	6,0	-	28,6
15	US202G2		40,0	12,0	-	22,0	-	-	6,0	24,6	-
	ES202G2		40,0	12,0	28,6	19,1	-	13,5	6,5	-	27,2
	UC202G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX202G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
	SUC202		47,0	17,0	-	31,0	-	-	12,7	-	-
	SES202		40,0	12,0	28,6	19,1	-	-	6,0	-	28,6
17	US203G2		40,0	12,0	-	22,0	-	-	6,0	24,6	-
	ES203G2		40,0	12,0	28,6	19,1	-	13,5	6,5	-	27,2
	UC203G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX203G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
	SUC203		47,0	17,0	-	31,0	-	-	12,7	-	-
	SES203		40,0	12,0	28,6	19,1	-	-	6,0	-	28,6
20	UC204G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	US204G2		47,0	14,0	-	25,0	-	-	7,0	29,0	-
	ES204G2		47,0	14,0	30,9	21,4	-	13,5	7,5	-	32,4
	EX204G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
	UK205G2	+ H2305	52,0	17,0	35,0	21,0	8,0	-	-	34,0	38,0
	MUC204FD		47,0	17,0	-	31,0	-	-	12,7	29,0	-
	SUC204		47,0	17,0	-	31,0	-	-	12,7	-	-
	SES 204		47,0	14,0	31,0	21,5	-	-	7,0	-	33,3
	UK305G2	+ H2305	62,0	21,0	35,0	27,0	8,0	-	-	35,4	38,0
25	UC205G2		52,0	17,0	-	34,0	-	-	14,3	34,0	-
	US205G2		52,0	15,0	-	27,0	-	-	7,5	34,0	-
	ES205G2		52,0	15,0	30,9	21,4	-	13,5	7,5	-	37,4
	EX205G2		52,0	17,0	44,3	34,8	-	13,5	17,4	-	37,4
	MUC205FD		52,0	17,0	-	34,1	-	-	14,3	34,0	-
	SUC205		52,0	17,0	-	34,1	-	-	14,3	-	-
	SES205		52,0	15,0	31,0	21,5	-	-	7,5	-	38,1
	UK206G2	+ H2306	62,0	19,0	38,0	25,0	8,0	-	-	40,3	45,0
	UC305G2		62,0	21,0	-	38,1	-	-	15,0	35,4	-
	EX305G2		62,0	21,0	46,8	34,9	-	15,9	16,7	-	42,8
	UK306G2	+ H2306	72,0	24,0	38,0	30,0	8,0	-	-	44,6	45,0

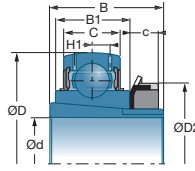


# Characteristics



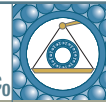
## ■ Bearing-inserts for self-aligning bearing units (metric)



EX

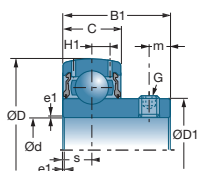


UK + H

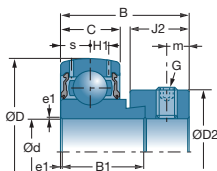
References	Adapter sleeve	H1	m	G	a*	e1			
							10 <sup>3</sup> N	10 <sup>3</sup> N	kg
US201G2		3,6	4,0	M5x0,8	2,5	0,6	9,55	4,78	0,090
ES201G2		3,6	5,0	M6x1	3,0	0,6	9,55	4,78	0,140
UC201G2		4,4	4,7	M6x1	3,0	0,6	12,80	6,65	0,210
EX201G2		4,4	5,0	M6x1	3,0	0,6	12,80	6,65	0,290
SUC201		-	5,0	M6x1	-	0,5	10,10	6,80	0,210
SES201		-	5,0	M6x1	-	0,5	7,80	4,50	0,140
US202G2		3,6	4,0	M5x0,8	2,5	0,6	9,55	4,78	0,080
ES202G2		3,6	5,0	M6x1	3,0	0,6	9,55	4,78	0,130
UC202G2		4,4	4,7	M6x1	3,0	0,6	12,80	6,65	0,200
EX202G2		4,4	5,0	M6x1	3,0	0,6	12,80	6,65	0,270
SUC202		-	5,0	M6x1	-	0,5	10,10	6,80	0,190
SES202		-	5,0	M6x1	-	0,5	7,80	4,50	0,120
US203G2		3,6	4,0	M5x0,8	2,5	0,6	9,55	4,78	0,100
ES203G2		3,6	5,0	M6x1	3,0	0,6	9,55	4,78	0,130
UC203G2		4,4	4,7	M6x1	3,0	0,6	12,80	6,65	0,180
EX203G2		4,4	5,0	M6x1	3,0	0,6	12,80	6,65	0,250
SUC203		-	5,0	M6x1	-	0,5	10,10	6,80	0,180
SES203		-	5,0	M6x1	-	0,5	7,80	4,50	0,110
UC204G2		4,4	4,7	M6x1	3,0	0,6	12,80	6,65	0,170
US204G2		4,0	5,0	M6x1	3,0	0,6	12,80	6,65	0,130
ES204G2		4,0	5,0	M6x1	3,0	0,6	12,80	6,65	0,150
EX204G2		4,4	5,0	M6x1	3,0	0,6	12,80	6,65	0,220
UK205G2	+ H2305	4,3	-	-	-	-	14,00	7,88	0,240
MUC204FD		-	4,5	-	-	1,5	10,90	5,30	0,160
SUC204		-	5,0	M6x1	-	0,5	10,10	6,80	0,160
SES 204		-	5,0	M6x1	-	0,5	10,10	6,80	0,170
UK305G2	+ H2305	6,2	-	-	-	-	22,36	11,50	0,490
UC205G2		4,3	5,5	M6x1	3,0	0,6	14,00	7,88	0,210
US205G2		4,3	5,5	M6x1	3,0	0,6	14,00	7,88	0,170
ES205G2		4,3	5,0	M8x1	3,0	0,6	14,00	7,88	0,190
EX205G2		4,3	5,0	M8x1	3,0	0,6	14,00	7,88	0,250
MUC205FD		-	5,0	-	-	1,5	11,90	6,30	0,190
SUC205		-	5,0	M6x1	-	0,5	11,00	8,00	0,200
SES205		-	5,0	M6x1	-	0,5	11,00	8,00	0,200
UK206G2	+ H2306	5,0	-	-	-	-	19,50	11,20	0,380
UC305G2		6,2	6,0	M6x1	3,0	1,5	22,36	11,50	0,350
EX305G2		6,2	6,0	M8x1	4,0	1,5	22,36	11,50	0,430
UK306G2	+ H2306	6,5	-	-	-	-	27,00	15,20	0,586

\* Hex set-screw

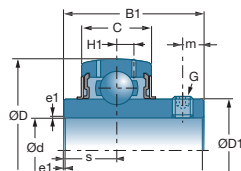
## Bearing-inserts (continued)




US



ES - SES

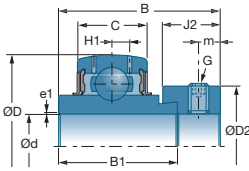


UC - SUC - MUC

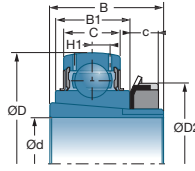
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2	
mm	References		mm	mm	mm	mm	mm	mm	mm	mm	mm	
30	UC206G2		62,0	19,0	-	38,1	-	-	15,9	40,3	-	
	US206G2		62,0	16,0	-	30,0	-	8,0	40,3	-		
	ES206G2		62,0	16,0	35,7	23,8	-	15,9	9,0	-	44,1	
	EX206G2		62,0	19,0	48,3	36,4	-	15,9	18,2	-	44,1	
	MUC206FD		62,0	19,0	-	38,1	-	-	15,9	40,5	-	
	SUC206		62,0	19,0	-	38,1	-	-	15,9	-	-	
	SES206		62,0	16,0	35,7	23,8	-	-	8,0	-	44,5	
	UK207G2		+ H2307	72,0	20,0	43,0	27,0	9,0	-	-	48,0	52,0
	UC306G2		72,0	24,0	-	43,0	-	-	17,0	-	44,6	-
	EX306G2		72,0	24,0	50,0	36,5	-	17,5	17,5	-	-	50,0
UK307G2	+ H2307	80,0	25,0	43,0	33,0	9,0	-	-	48,9	52,0		
35	UC207G2		72,0	20,0	-	42,9	-	-	17,5	48,0	-	
	US207G2		72,0	17,0	-	32,0	-	8,5	48,0	-		
	ES207G2		72,0	17,0	38,9	25,4	-	17,5	9,5	-	51,1	
	EX207G2		72,0	20,0	51,1	37,6	-	17,5	18,8	-	51,1	
	MUC207FD		72,0	20,0	-	42,9	-	-	17,5	48,0	-	
	SUC207		72,0	20,0	-	42,9	-	-	17,5	-	-	
	SES207		72,0	17,0	38,9	25,4	-	-	8,5	-	55,6	
	UK208G2		+ H2308	80,0	21,0	46,0	29,0	10,0	-	-	53,0	58,0
	UC307G2		80,0	25,0	-	48,0	-	-	19,0	-	48,9	-
	EX307G2		80,0	25,0	51,6	38,1	-	17,5	18,3	-	-	55,0
UK308G2	+ H2308	90,0	28,0	46,0	35,0	10,0	-	-	56,5	58,0		
40	UC208G2		80,0	21,0	-	49,2	-	-	19,0	53,0	-	
	US208G2		80,0	18,0	-	34,0	-	9,0	53,0	-		
	ES208G2		80,0	18,0	43,7	30,2	-	18,3	11,0	-	58,0	
	EX208G2		80,0	21,0	56,3	42,8	-	18,3	21,4	-	58,0	
	MUC208FD		80,0	21,0	-	49,2	-	-	19,0	53,0	-	
	SUC208		80,0	21,0	-	49,2	-	-	19,0	-	-	
	SES208		80,0	18,0	43,7	30,2	-	-	9,0	-	60,3	
	UK209G2		+ H2309	85,0	22,0	50,0	30,0	11,0	-	-	57,2	65,0
	UC308G2		90,0	28,0	-	52,0	-	-	19,0	-	56,5	-
	EX308G2		90,0	28,0	57,1	41,3	-	20,6	19,8	-	-	63,5
UK309G2	+ H2309	100,0	30,0	50,0	38,0	11,0	-	-	61,8	65,0		
45	UC209G2		85,0	22,0	-	49,2	-	-	19,0	57,2	-	
	US209G2		85,0	19,0	-	41,2	-	10,2	57,2	-		
	ES209G2		85,0	19,0	43,7	30,2	-	18,3	11,0	-	63,5	
	EX209G2		85,0	22,0	56,3	42,8	-	18,3	21,4	-	63,5	
	SUC209		85,0	22,0	-	49,2	-	-	19,0	-	-	
	SES209		85,0	19,0	43,7	30,2	-	-	9,5	-	36,5	
	UK210G2		+ H2310	90,0	23,0	55,0	31,0	12,0	-	-	61,8	70,0







■ Bearing-inserts for self-aligning bearing units (metric) (continued)



EX

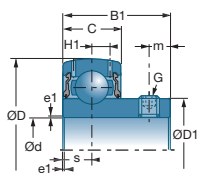


UK + H

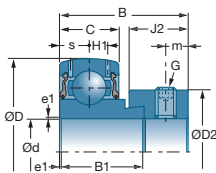
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
UC206G2		5,0	5,5	M6x1	3,0	0,6	19,50	11,20	0,320
US206G2		5,0	6,0	M6x1	3,0	0,6	19,50	11,20	0,270
ES206G2		5,0	6,0	M6x1	3,0	0,6	19,50	11,20	0,330
EX206G2		5,0	6,0	M6x1	3,0	0,6	19,50	11,20	0,410
MUC206FD		-	5,0	-	-	1,5	16,70	9,00	0,310
SUC206		-	5,0	M6x1	-	0,5	15,30	11,50	0,320
SES206		-	6,0	M8x1	-	0,5	15,30	11,50	0,320
UK207G2	+ H2307	5,8	-	-	-	-	25,70	15,20	0,535
UC306G2		6,5	6,0	M6x1	3,0	1,5	27,00	15,20	0,560
EX306G2		6,5	6,7	M8x1	4,0	1,5	27,00	15,20	0,680
UK307G2	+ H2307	7,2	-	-	-	-	33,50	19,20	0,915
UC207G2		5,8	6,5	M8x1	4,0	1,1	25,70	15,20	0,470
US207G2		5,7	6,5	M6x1	3,0	0,6	25,70	15,20	0,420
ES207G2		5,7	6,5	M8x1	4,0	1,1	25,70	15,20	0,500
EX207G2		5,8	6,5	M8x1	4,0	1,1	25,70	15,20	0,600
MUC207FD		-	6,0	-	-	2,0	16,70	9,00	0,480
SUC207		-	6,0	M8x1	-	1,0	20,10	15,60	0,470
SES207		-	6,5	M8x1	-	1,0	20,10	15,60	0,510
UK208G2	+ H2308	6,3	-	-	-	-	29,60	18,20	0,704
UC307G2		7,2	8,0	M8x1	4,0	2,0	33,50	19,20	0,710
EX307G2		7,2	6,7	M8x1	4,0	2,0	33,50	19,20	0,800
UK308G2	+ H2308	8,5	-	-	-	-	40,56	24,00	1,034
UC208G2		6,3	8,0	M8x1	4,0	1,1	29,60	18,20	0,640
US208G2		6,2	7,0	M8x1	4,0	1,1	29,60	18,20	0,600
ES208G2		6,2	6,5	M8x1	4,0	1,1	29,60	18,20	0,650
EX208G2		6,3	6,5	M8x1	4,0	1,1	29,60	18,20	0,780
MUC208FD		-	8,0	-	-	2,0	22,00	12,30	0,620
SUC208		-	8,0	M8x1	-	1,0	22,80	18,20	0,630
SES208		-	6,5	M8x1	-	1,0	22,80	18,20	0,640
UK209G2	+ H2309	6,8	5,0	-	-	-	31,85	20,80	0,810
UC308G2		8,5	10,0	M10x1,25	5,0	2,0	40,56	24,00	0,960
EX308G2		8,5	8,0	M10x1,25	5,0	2,0	40,56	24,00	1,080
UK309G2	+ H2309	9,0	-	-	-	-	53,00	31,80	1,470
UC209G2		6,8	8,0	M8x1	4,0	1,1	31,85	20,80	0,680
US209G2		6,5	8,2	M8x1	4,0	1,1	31,85	20,80	0,650
ES209G2		6,5	6,5	M8x1	4,0	1,1	31,85	20,80	0,690
EX209G2		6,8	6,5	M8x1	4,0	1,1	31,85	20,80	0,870
SUC209		-	8,0	M10x1,25	-	1,0	25,70	20,80	0,690
SES209		-	6,5	M8x1	-	1,0	25,70	20,80	0,670
UK210G2	+ H2310	6,5	-	-	-	-	35,10	23,20	0,952

\* Hex set-screw

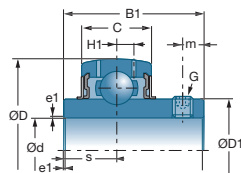
## Bearing-inserts (continued)




US



ES - SES

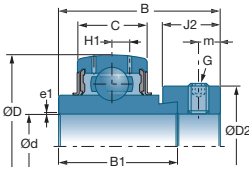


UC - SUC - MUC

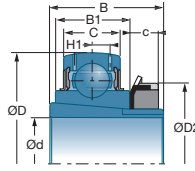
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
mm	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
50	UC309G2	+ H2310	100,0	30,0	-	57,0	-	-	22,0	61,8	-
	EX309G2		100,0	30,0	58,7	42,9	-	20,6	19,8	-	70,0
	UK310G2		110,0	32,0	55,0	40,0	12,0	-	-	68,7	70,0
50	UC210G2	+ H2311	90,0	23,0	-	51,6	-	-	19,0	61,8	-
	US210G2		90,0	20,0	-	43,5	-	-	10,9	61,8	-
	ES210G2		90,0	20,0	43,7	30,2	-	18,3	11,0	-	67,2
	EX210G2		90,0	23,0	62,7	49,2	-	18,3	24,6	-	67,2
	SUC210		90,0	24,0	-	51,6	-	-	19,0	-	-
	SES210		90,0	20,0	43,7	30,2	-	-	10,0	-	69,9
	UK211G2		100,0	25,0	59,0	33,0	12,5	-	-	69,0	75,0
	UC310G2		110,0	32,0	-	61,0	-	-	22,0	68,7	-
	EX310G2		110,0	32,0	66,6	49,2	-	22,2	24,6	-	76,2
	UK311G2		120,0	34,0	59,0	43,0	12,5	-	-	74,9	75,0
55	UC211G2	+ H2312	100,0	25,0	-	55,6	-	-	22,2	69,0	-
	US211G2		100,0	23,0	-	45,3	-	-	11,8	69,0	-
	ES211G2		100,0	24,0	48,4	32,5	-	20,7	12,0	-	74,5
	EX211G2		100,0	25,0	71,3	55,4	-	20,7	27,7	-	74,5
	SUC211		100,0	25,0	-	55,6	-	-	22,2	-	-
	SES211		100,0	21,0	48,4	32,5	-	-	10,5	-	76,2
	UK212G2		110,0	27,0	62,0	36,0	13,0	-	-	74,9	80,0
	UC311G2		120,0	34,0	-	66,0	-	-	25,0	74,9	-
	EX311G2		120,0	34,0	73,0	55,6	-	22,2	27,8	-	83,0
	UK312G2		130,0	36,0	62,0	47,0	13,0	-	-	81,0	80,0
60	UC212G2	+ H2313	110,0	27,0	-	65,1	-	-	25,4	74,9	-
	US212G2		110,0	24,0	-	53,7	-	-	14,9	74,9	-
	ES212G2		110,0	24,0	49,3	33,4	-	22,3	12,0	-	82,0
	EX212G2		110,0	27,0	77,7	61,8	-	22,3	30,9	-	82,0
	SUC212		110,0	27,0	-	65,1	-	-	25,4	-	-
	SES212		110,0	22,0	53,1	37,1	-	-	11,0	-	84,2
	UK213G2		120,0	28,0	65,0	36,0	14,0	-	-	82,0	85,0
	UC312G2		130,0	36,0	-	71,0	-	-	26,0	81,0	-
	EX312G2		130,0	36,0	79,4	61,9	-	23,9	31,0	-	89,0
	UK313G2		140,0	38,0	65,0	49,0	14,0	-	-	87,5	85,0
65	UC213G2	+ H2315	120,0	28,0	-	65,1	-	-	25,4	82,0	-
	EX213G2		120,0	28,0	85,7	68,2	-	23,5	34,1	-	86,0
	UK215G2		130,0	30,0	73,0	41,0	15,0	-	-	91,5	98,0
	UC313G2		140,0	38,0	-	75,0	-	-	30,0	87,5	-
	EX313G2		140,0	38,0	85,7	65,1	-	27,0	32,5	-	97,0
	UK315G2		160,0	42,0	73,0	55,0	15,0	-	-	100,5	98,0







■ Bearing-inserts for self-aligning bearing units (metric) (continued)



EX

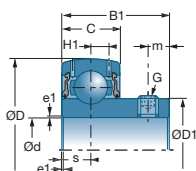


UK + H

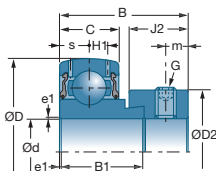
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
UC309G2 EX309G2 UK310G2	+ H2310	9,0 9,0 9,9	10,0 8,0 -	M10x1,25 M10x1,25 -	5,0 5,0 -	2,0 2,0 -	53,00 53,00 62,00	31,80 31,80 37,80	1,280 1,450 1,742
UC210G2 US210G2 ES210G2 EX210G2 SUC210 SES210 UK211G2 UC310G2 EX310G2 UK311G2	+ H2311	6,5 6,5 6,5 6,5 - - 7,2 9,9 9,9 10,6	9,0 9,2 6,5 6,5 10,0 6,5 - 12,0 8,7 -	M10x1,25 M8x1 M8x1 M8x1 M10x1,25 M8x1 - M12x1,25 M10x1,25 -	5,0 4,0 4,0 4,0 - - - 6,0 5,0 -	1,1 1,1 1,1 1,1 1,0 1,0 - 2,0 2,0 -	35,10 35,10 35,10 35,10 27,50 27,50 43,55 62,00 62,00 71,50	23,20 23,20 23,20 23,20 23,70 23,70 29,20 37,80 37,80 44,80	0,800 0,760 0,800 1,010 0,770 0,750 1,190 1,650 1,860 2,200
UC211G2 US211G2 ES211G2 EX211G2 SUC211 SES211 UK212G2 UC311G2 EX311G2 UK312G2	+ H2312	7,2 7,2 7,2 7,2 - - 8,2 10,6 10,6 11,3	9,0 9,8 8,0 8,0 10,0 8,0 - 12,0 9,0 -	M10x1,25 M10x1,25 M10x1,25 M10x1,25 M10x1,25 M10x1,25 M10x1,25 M12x1,25 M10x1,25 -	5,0 5,0 5,0 5,0 - - - 6,0 5,0 -	1,1 1,1 1,1 1,5 1,0 1,0 - 2,0 2,0 -	43,55 43,55 43,55 43,55 34,00 34,00 52,50 71,50 71,50 81,60	29,20 29,20 29,20 29,20 25,50 25,50 32,80 44,80 44,80 51,80	1,120 1,070 0,870 1,390 1,060 1,030 1,511 1,900 2,300 2,541
UC212G2 US212G2 ES212G2 EX212G2 SUC212 SES212 UK213G2 UC312G2 EX312G2 UK313G2	+ H2313	8,2 8,0 8,0 8,2 - - 8,0 11,3 11,3 12,1	10,5 9,8 8,0 8,0 10,0 8,0 - 12,0 9,0 -	M10x1,25 M10x1,25 M10x1,25 M10x1,25 M10x1,25 M10x1,25 M10x1,25 M12x1,25 M10x1,25 -	5,0 5,0 5,0 5,0 - - - 6,0 5,0 -	1,1 1,1 1,1 1,5 1,0 1,0 - 2,0 2,0 -	52,50 52,50 52,50 52,50 41,00 41,00 57,20 81,60 81,60 93,86	32,80 32,80 32,80 32,80 31,50 31,50 40,00 51,80 51,80 60,50	1,530 1,300 1,200 1,870 1,470 1,340 1,917 2,600 2,890 3,267
UC213G2 EX213G2 UK215G2 UC313G2 EX313G2 UK315G2	+ H2315	8,0 8,0 9,0 12,1 12,1 13,5	12,0 8,5 - 12,0 11,5 -	M12x1,25 M10x1,25 - M12x1,25 M12x1,25 -	6,0 5,0 - 6,0 6,0 -	1,5 1,5 - 2,0 2,0 -	57,20 57,20 66,00 93,86 93,86 113,36	40,00 40,00 49,50 60,50 60,50 76,80	1,860 2,410 2,720 3,250 3,660 5,030

\* Hex set-screw

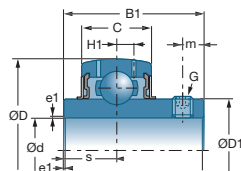
## Bearing-inserts (continued)




US



ES - SES



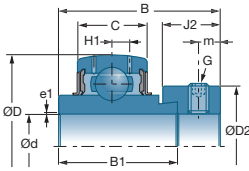
UC - SUC - MUC

d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
mm	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
70	UC214G2	+ H2316	125,0	30,0	-	74,6	-	-	30,2	86,5	-
	EX214G2		125,0	30,0	85,7	68,2	-	23,5	34,1	-	96,8
	UK216G2		140,0	33,0	78,0	44,0	17,0	-	-	98,0	105,0
	UC314G2	+ H2316	150,0	40,0	-	78,0	-	-	33,0	94,0	-
	EX314G2		150,0	40,0	92,1	68,3	-	30,2	34,2	-	102,0
	UK316G2		170,0	44,0	78,0	55,0	17,0	-	-	107,9	105,0
75	UC215G2	+ H2317	130,0	30,0	-	77,8	-	-	33,3	91,5	-
	EX215G2		130,0	30,0	92,1	74,6	-	23,9	37,3	-	102,0
	UK217G2		150,0	35,0	82,0	44,0	18,0	-	-	105,1	110,0
	UC315G2	+ H2317	160,0	42,0	-	82,0	-	-	32,0	100,5	-
	EX315G2		160,0	42,0	100,0	74,6	-	31,8	37,3	-	113,0
	UK317G2		180,0	46,0	82,0	60,0	18,0	-	-	114,0	110,0
80	UC216G2	+ H2318	140,0	33,0	-	82,6	-	-	33,3	98,0	-
	EX216G2		140,0	33,0	95,2	74,6	-	27,0	37,3	-	110,0
	UK218G2		160,0	37,0	86,0	48,0	18,0	-	-	111,0	120,0
	UC316G2	+ H2318	170,0	44,0	-	86,0	-	-	34,0	107,9	-
	EX316G2		170,0	44,0	106,4	81,0	-	31,8	40,5	-	119,0
	UK318G2		190,0	48,0	86,0	60,0	18,0	-	-	120,0	120,0
85	UC217G2	+ H2319	150,0	35,0	-	85,7	-	-	34,1	105,1	-
	EX217G2		150,0	35,0	73,2	53,2	-	27,0	23,4	-	119,0
	UK317G2		180,0	46,0	-	96,0	-	-	40,0	114,0	-
	UC317G2	+ H2319	180,0	46,0	109,5	84,1	-	31,8	42,0	-	127,0
	EX317G2		180,0	46,0	90,0	66,0	19,0	-	-	126,5	125,0
	UK319G2		200,0	50,0	90,0	66,0	19,0	-	-	126,5	125,0
90	UC218G2	+ H2320	160,0	37,0	-	96,0	-	-	39,7	111,0	-
	EX218G2		160,0	37,0	72,5	55,0	-	24,0	24,5	-	120,0
	UK318G2		190,0	48,0	-	96,0	-	-	40,0	120,0	-
	UC318G2	+ H2320	190,0	48,0	115,9	87,3	-	36,5	43,6	-	133,0
	EX318G2		190,0	48,0	97,0	68,0	20,0	-	-	134,5	130,0
	UK320G2		215,0	54,0	97,0	68,0	20,0	-	-	134,5	130,0
95	UC319G2		200,0	50,0	-	103,0	-	-	41,0	126,5	-
	EX319G2		200,0	50,0	122,3	93,7	-	36,5	46,8	-	140,0
100	UC320G2	+ H2322	215,0	54,0	-	108,0	-	-	42,0	134,5	-
	EX320G2		215,0	54,0	128,6	100,0	-	36,5	50,0	-	146,0
	UK322G2		240,0	60,0	105,0	80,0	21,0	-	-	147,7	145,0
105	UC321G2		225,0	57,0	-	112,0	-	-	44,0	140,5	-
110	UC322G2	+ H2324	240,0	60,0	-	117,0	-	-	46,0	149,0	-
	UK324G2		260,0	64,0	112,0	86,0	22,0	-	-	162,1	155,0

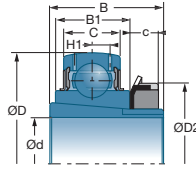








■ Bearing-inserts for self-aligning bearing units (metric) (continued)



EX

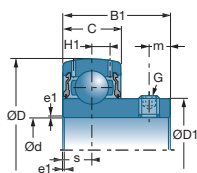


UK + H

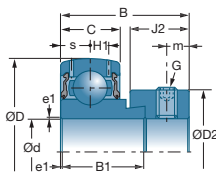
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
UC214G2	+ H2316	9,0	12,0	M12x1,25	6,0	2,0	62,00	45,00	2,050
EX214G2		9,0	8,5	M10x1,25	5,0	2,0	62,00	45,00	2,570
UK216G2		10,3	-	-	-	-	72,50	54,20	3,240
UC314G2		12,8	12,0	M12x1,25	6,0	2,5	104,26	68,00	3,950
EX314G2		12,8	12,0	M12x1,25	6,0	2,5	104,26	68,00	4,500
UK316G2		14,5	-	-	-	-	122,85	86,50	5,830
UC215G2	+ H2317	9,0	12,0	M12x1,25	6,0	2,0	66,00	49,50	2,210
EX215G2		9,0	8,5	M10x1,25	5,0	2,0	66,00	49,50	2,840
UK217G2		11,0	-	-	-	-	83,20	63,80	3,870
UC315G2		13,5	14,0	M14x1,5	6,0	2,5	113,36	76,80	4,330
EX315G2		13,5	13,0	M16x1,5	8,0	2,5	113,36	76,80	5,340
UK317G2		15,5	-	-	-	-	132,60	96,50	6,890
UC216G2	+ H2318	10,3	14,0	M12x1,25	6,0	2,0	72,50	54,20	2,790
EX216G2		10,3	10,3	M12x1,25	6,0	2,0	72,50	54,20	3,120
UK218G2		12,0	-	-	-	-	96,00	71,50	4,690
UC316G2		14,5	14,0	M14x1,5	6,0	3,0	122,85	86,50	5,570
EX316G2		14,5	13,0	M16x1,5	8,0	3,0	122,85	86,50	6,700
UK318G2		16,5	-	-	-	-	143,00	108,00	7,940
UC217G2	+ H2319	11,0	14,0	M12x1,25	6,0	2,0	83,20	63,80	3,380
EX217G2		11,0	10,0	M12x1,25	6,0	2,0	83,20	63,80	3,720
UC317G2		15,5	16,0	M16x1,5	8,0	3,0	132,60	96,50	6,840
EX317G2		15,5	13,0	M16x1,5	8,0	3,0	132,60	96,50	7,960
UK319G2		16,7	-	-	-	-	156,00	122,00	9,230
UC218G2		+ H2320	12,0	14,0	M12x1,25	6,0	2,0	96,00	71,50
EX218G2	12,0		9,5	M12x1,25	6,0	2,0	96,00	71,50	4,900
UC318G2	16,5		16,0	M16x1,5	8,0	3,5	143,00	108,00	7,870
EX318G2	16,5		14,5	M20x1,5	8,0	3,0	143,00	108,00	9,100
UK320G2	19,0		-	-	-	-	171,60	140,00	10,970
UC319G2			16,7	18,0	M16x1,5	8,0	3,0	156,00	122,00
EX319G2		16,7	14,5	M20x1,5	8,0	3,0	156,00	122,00	10,400
UC320G2	+ H2322	19,0	18,0	M18x1,5	9,0	3,5	171,60	140,00	11,200
EX320G2		19,0	14,5	M20x1,5	9,0	3,5	171,60	140,00	13,000
UK322G2		21,0	-	-	-	-	205,00	178,00	17,640
UC321G2		20,0	18,0	M18x1,5	9,0	3,0	182,00	155,00	12,200
UC322G2	+ H2324	21,0	18,0	M18x1,5	9,0	3,0	205,00	178,00	14,300
UK324G2		22,0	-	-	-	-	228,00	208,00	21,190

\* Hex set-screw

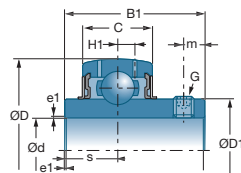
## Bearing-inserts (continued)



US

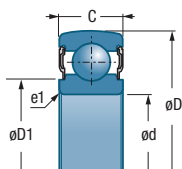


ES - SES



UC - SUC - MUC

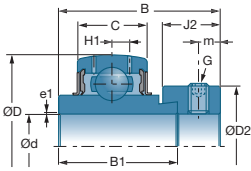
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
mm	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
115	UK326G2	+ H2326	280,0	68,0	121,0	92,0	23,0	-	-	176,1	165,0
120	UC324G2		260,0	64,0	-	126,0	-	-	51,0	163,0	-
125	UK328G2	+ H2328	300,0	73,0	131,0	98,0	24,0	-	-	189,0	180,0
130	UC326G2		280,0	68,0	-	135,0	-	-	54,0	177,0	-
140	UC328G2		300,0	73,0	-	145,0	-	-	59,0	190,0	-



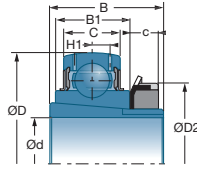
d		D	C	D1	e1			
mm	References	mm	mm	mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
12	CS201	40	12	24,6	0,6	9,58	4,78	0,065
15	CS202	40	12	24,6	0,6	9,58	4,78	0,060
17	CS203	40	12	24,6	0,6	9,58	4,78	0,050
20	CS204	47	14	29,0	0,6	12,80	6,65	0,095
25	CS205	52	15	34,0	0,6	14,00	7,88	0,110
30	CS206	62	16	40,3	0,6	19,50	11,50	0,180
35	CS207	72	17	48,0	0,6	25,50	15,20	0,250
40	CS208	80	18	53,0	1,1	29,60	18,20	0,320
45	CS209	85	19	57,2	1,1	31,50	20,80	0,370
50	CS210	90	20	61,8	1,1	35,10	23,20	0,410







■ Bearing-inserts for self-aligning bearing units (metric) (continued)



EX

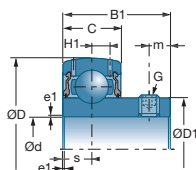


UK + H

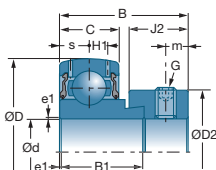
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
UK326G2	+ H2326	23,0	-	-	-	-	252,00	242,00	27,900
UC324G2		22,0	18,0	M18x1,5	9,0	3,0	228,00	208,00	18,500
UK328G2	+ H2328	25,0	-	-	-	-	275,00	272,00	34,450
UC326G2		23,0	20,0	M20x1,5	10,0	4,0	252,00	242,00	23,000
UC328G2		25,0	20,0	M20x1,5	10,0	4,0	275,00	272,00	28,500

\* Hex set-screw

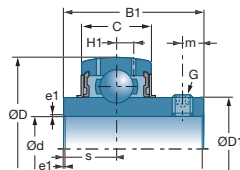
## Bearing-inserts (continued)




US



ES - SES

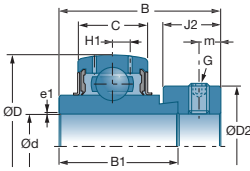


UC - SUC - MUC

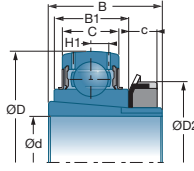
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
inch	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
1/2	US201-08G2		40,0	12,0	-	22,0	-	-	6,0	24,6	-
	ES201-08G2		40,0	12,0	28,6	19,1	-	13,5	6,5	-	27,2
	UC201-08G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX201-08G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
5/8	US202-10G2		40,0	12,0	-	22,0	-	-	6,0	24,6	-
	ES202-10G2		40,0	12,0	28,6	19,1	-	13,5	6,5	-	27,2
	UC202-10G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX202-10G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
	MUC202-10FD		47,0	17,0	31,0	31,0	-	-	12,7	29,0	-
11/16	US203-11G2		40,0	12,0	-	22,0	-	-	6,0	24,6	-
	ES203-11G2		40,0	12,0	28,6	19,1	-	13,5	6,5	-	27,2
	UC203-11G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX203-11G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
3/4	US204-12G2		47,0	14,0	-	25,0	-	-	7,0	29,0	-
	ES204-12G2		47,0	14,0	30,9	21,4	-	13,5	7,5	-	32,4
	UC204-12G2		47,0	16,0	-	31,0	-	-	12,7	29,0	-
	EX204-12G2		47,0	16,0	43,5	34,0	-	13,5	17,0	-	32,4
	MUC204-12FD		47,0	17,0	31,0	31,0	-	-	12,7	29,0	-
	SUC204-12		47,0	17,0	-	31,0	-	-	12,7	-	-
	SES204-12		47,0	14,0	-	21,5	-	-	7,0	-	33,3
	UK205G2	+ H2305-12	52,0	17,0	35,0	21,0	8,0	-	-	34,0	38,0
	UK305G2	+ H2305-12	62,0	21,0	35,0	27,0	8,0	-	-	35,4	38,0
7/8	US205-14G2		52,0	15,0	-	27,0	-	-	7,5	34,0	-
	ES205-14G2		52,0	15,0	30,9	21,4	-	13,5	7,5	-	37,4
	UC205-14G2		52,0	17,0	-	34,0	-	-	14,3	34,0	-
	EX205-14G2		52,0	17,0	44,3	34,8	-	13,5	17,4	-	37,4
	UK206G2	+ H2306-14	62,0	19,0	38,0	25,0	8,0	-	-	40,3	45,0
	UC305-14G2		62,0	21,0	38,0	-	-	-	15,0	35,4	-
	EX305-14G2		62,0	21,0	46,8	34,9	-	15,9	16,7	-	42,8
	UK306G2	+ H2306-14	72,0	24,0	38,0	30,0	8,0	-	-	44,6	45,0
15/16	US205-15G2		52,0	15,0	-	27,0	-	-	7,5	34,0	-
	ES205-15G2		52,0	15,0	30,9	21,4	-	13,5	7,5	-	37,4
	UC205-15G2		52,0	17,0	-	34,0	-	-	14,3	34,0	-
	EX205-15G2		52,0	17,0	44,3	34,8	-	13,5	17,4	-	37,4
	UK206G2	+ H2306-15	62,0	19,0	38,0	25,0	8,0	-	-	40,3	45,0
	UC305-15G2		62,0	21,0	-	38,0	-	-	15,0	35,4	-
	EX305-15G2		62,0	21,0	46,8	34,9	-	15,9	16,7	-	42,8
	UK306G2	+ H2306-15	72,0	24,0	38,0	30,0	8,0	-	-	44,6	45,0







■ Bearing-inserts for self-aligning bearings unit (inch)



EX

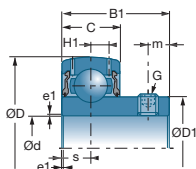


UK + H

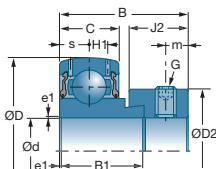
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10°N	10°N	kg
US201-08G2		3,6	4,0	10-32UNF	3/32	0,6	9,55	4,78	0,090
ES201-08G2		3,6	5,0	1/4-28UNF	1/8	0,6	9,55	4,78	0,140
UC201-08G2		4,4	4,7	1/4-28UNF	1/8	0,6	12,80	6,65	0,210
EX201-08G2		4,4	5,0	1/4-28UNF	1/8	0,6	12,80	6,65	0,280
US202-10G2		3,6	4,0	10-32UNF	3/32	0,6	9,55	4,78	0,080
ES202-10G2		3,6	5,0	1/4-28UNF	1/8	0,6	9,55	4,78	0,130
UC202-10G2		4,4	4,7	1/4-28UNF	1/8	0,6	12,80	6,65	0,200
EX202-10G2		4,4	5,0	1/4-28UNF	1/8	0,6	12,80	6,65	0,260
MUC202-10FD		-	4,5	-	3 mm	1,0	10,90	5,30	0,181
US203-11G2		3,6	4,0	10-32UNF	3/32	0,6	9,55	4,78	0,100
ES203-11G2		3,6	5,0	1/4-28UNF	1/8	0,6	9,55	4,78	0,130
UC203-11G2		4,4	4,7	1/4-28UNF	1/8	0,6	12,80	6,65	0,180
EX203-11G2		4,4	5,0	1/4-28UNF	1/8	0,6	12,80	6,65	0,240
US204-12G2		4,0	5,0	1/4-28UNF	1/8	0,6	12,80	6,65	0,130
ES204-12G2		4,0	5,0	1/4-28UNF	1/8	0,6	12,80	6,65	0,150
UC204-12G2		4,4	4,7	1/4-28UNF	1/8	0,6	12,80	6,65	0,170
EX204-12G2		4,4	5,0	1/4-28UNF	1/8	0,6	12,80	6,65	0,220
MUC204-12FD		-	4,5	-	3 mm	1,5	10,90	5,30	0,181
SUC204-12		-	5,0	M6x1	3 mm	0,5	10,10	6,80	0,160
SES204-12		-	5,0	M6x1	3 mm	0,5	10,10	6,80	0,170
UK205G2	+ H2305-12	4,3	-	-	-	-	14,00	7,88	0,240
UK305G2	+ H2305-12	6,2	-	-	-	-	22,36	11,50	0,490
US205-14G2		4,3	5,5	1/4-28UNF	1/8	0,6	14,00	7,88	0,180
ES205-14G2		4,3	5,0	1/4-28UNF	1/8	0,6	14,00	7,88	0,190
UC205-14G2		4,3	5,5	1/4-28UNF	1/8	0,6	14,00	7,88	0,210
EX205-14G2		4,3	5,0	1/4-28UNF	1/8	0,6	14,00	7,88	0,250
UK206G2	+ H2306-14	5,0	-	-	-	-	19,50	11,20	0,400
UC305-14G2		6,2	6,0	1/4-28UNF	1/8	1,5	22,36	11,50	0,350
EX305-14G2		6,2	6,0	5/16-24UNF	5/32	1,5	22,36	11,50	0,430
UK306G2	+ H2306-14	6,5	-	-	-	-	27,00	15,20	0,610
US205-15G2		4,3	5,5	1/4-28UNF	1/8	0,6	14,00	7,88	0,180
ES205-15G2		4,3	5,0	1/4-28UNF	1/8	0,6	14,00	7,88	0,190
UC205-15G2		4,3	5,5	1/4-28UNF	1/8	0,6	14,00	7,88	0,210
EX205-15G2		4,3	5,0	1/4-28UNF	1/8	0,6	14,00	7,88	0,250
UK206G2	+ H2306-15	5,0	-	-	-	-	19,50	11,20	0,390
UC305-15G2		6,2	6,0	1/4-28UNF	1/8	1,5	22,36	11,50	0,350
EX305-15G2		6,2	6,0	5/16-24UNF	5/32	1,5	22,36	11,50	0,430
UK306G2	+ H2306-15	6,5	-	-	-	-	27,00	15,20	0,600

\* Hex set-screw

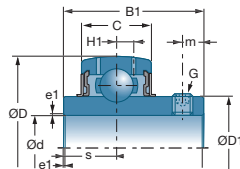
## Bearing-inserts (continued)



US



ES - SES

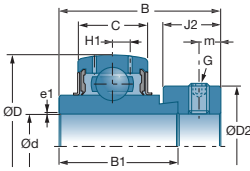


UC - SUC - MUC

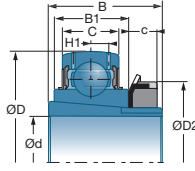
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
inch	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
1	US205-16G2	+ H2306-16	52,0	15,0	-	27,0	-	-	7,5	34,0	-
	ES205-16G2		52,0	15,0	30,9	21,4	-	13,5	7,5	-	38,1
	UC205-16G2		52,0	17,0	-	34,0	-	-	14,3	34,0	-
	EX205-16G2		52,0	17,0	44,3	34,8	-	13,5	17,4	-	38,1
	MUC205-16FD		52,0	17,0	-	34,1	-	-	14,3	34,0	-
	SUC205-16		52,0	17,0	-	34,1	-	-	14,3	-	-
	SES205-16		52,0	15,0	31,0	21,5	-	-	7,5	-	38,1
	UK206G2		62,0	19,0	38,0	25,0	8,0	-	-	-	45,0
	UC305-16G2		62,0	21,0	-	38,0	-	-	15,0	35,4	-
	EX305-16G2		62,0	21,0	46,8	34,9	-	15,9	16,7	-	42,8
UK306G2	72,0	24,0	38,0	30,0	8,0	-	-	44,6	45,0		
1-1/8	US206-18G2	+ H2307-18	62,0	16,0	-	30,0	-	-	8,0	40,3	-
	ES206-18G2		62,0	16,0	35,7	23,8	-	15,9	9,0	-	44,5
	UC206-18G2		62,0	19,0	-	38,1	-	-	15,9	40,3	-
	EX206-18G2		62,0	19,0	48,3	36,4	-	15,9	18,2	-	44,5
	MUC206-18FD		62,0	19,0	-	38,1	-	-	15,9	40,5	-
	UK207G2		72,0	20,0	43,0	27,0	9,0	-	-	48,0	52,0
	UC306-18G2		72,0	24,0	-	43,0	-	-	17,0	44,6	-
	EX306-18G2		72,0	24,0	50,0	36,5	-	17,5	17,5	-	50,0
	UK307G2		80,0	25,0	43,0	33,0	9,0	-	-	48,9	52,0
	1-3/16		US206-19G2	+ H2307-19	62,0	16,0	-	30,0	-	-	8,0
ES206-19G2		62,0	16,0		35,7	23,8	-	15,9	9,0	-	44,5
UC206-19G2		62,0	19,0		-	38,1	-	-	15,9	40,3	-
EX206-19G2		62,0	19,0		48,3	36,4	-	15,9	18,2	-	44,5
MUC206-19FD		62,0	19,0		-	38,1	-	-	15,9	40,5	-
SUC206-19		62,0	19,0		-	38,1	-	-	15,9	-	-
SES206-19		62,0	16,0		35,7	23,8	-	-	8,0	-	44,5
UK207G2		72,0	20,0		43,0	27,0	9,0	-	-	48,0	52,0
UC306-19G2		72,0	24,0		-	43,0	-	-	17,0	44,6	-
EX306-19G2		72,0	24,0		50,0	36,5	-	17,5	17,5	-	50,0
UK307G2	80,0	25,0	43,0	33,0	9,0	-	-	48,9	52,0		
1-1/4	US206-20G2	+ H2308-20	62,0	16,0	-	30,0	-	-	8,0	40,3	-
	ES206-20G2		62,0	16,0	35,7	23,8	-	15,9	9,0	-	44,5
	UC206-20G2		62,0	19,0	-	38,1	-	-	15,9	40,3	-
	EX206-20G2		62,0	19,0	48,3	36,4	-	15,9	18,2	-	44,5
	MUC206-20FD		62,0	19,0	-	38,1	-	-	15,9	40,5	-
	MUC207-20FD		72,0	20,0	-	42,9	-	-	17,5	48,0	-
	SUC206-20		62,0	19,0	-	38,1	-	-	15,9	-	-
	SES206-20		62,0	16,0	35,7	23,8	-	-	8,0	-	44,5
	UK208G2		80,0	21,0	46,0	29,0	10,0	-	-	53,0	58,0
	UC307-20G2		80,0	25,0	-	48,0	-	-	19,0	48,9	-







■ Bearing-inserts for self-aligning bearings unit (inch) (continued)



EX

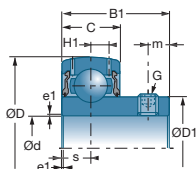


UK + H

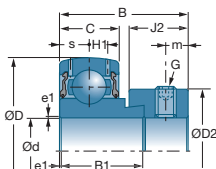
	Adapter sleeve	H1	m	G	a*	e1				
References		mm	mm		mm	mm	10°N	10°N	kg	
US205-16G2	+ H2306-16	4,3	5,5	1/4-28UNF	1/8	0,6	14,00	7,88	0,160	
ES205-16G2		4,3	5,0	1/4-28UNF	1/8	0,6	14,00	7,88	0,180	
UC205-16G2		4,3	5,5	1/4-28UNF	1/8	0,6	14,00	7,88	0,200	
EX205-16G2		4,3	5,0	1/4-28UNF	1/8	0,6	14,00	7,88	0,240	
MUC205-16FD		-	5,0	-	3 mm	1,5	11,90	6,30	0,181	
SUC205-16		-	5,0	M6x1	3 mm	15,3	11,00	8,00	0,200	
SES205-16		-	5,0	M6x1	3 mm	0,5	11,00	8,00	0,200	
UK206G2		-	5,0	-	-	-	19,50	11,20	0,360	
UC305-16G2		-	6,2	6,0	1/4-28UNF	1/8	1,5	22,36	11,50	0,340
EX305-16G2		-	6,2	6,0	5/16-24UNF	5/32	1,5	22,36	11,50	0,430
UK306G2	+ H2306-16	6,5	-	-	-	-	27,00	15,20	0,570	
US206-18G2	+ H2307-18	5,0	6,0	1/4-28UNF	1/8	0,6	19,50	11,20	0,280	
ES206-18G2		5,0	6,0	5/16-24UNF	5/32	0,6	19,50	11,20	0,350	
UC206-18G2		5,0	5,5	1/4-28UNF	1/8	0,6	19,50	11,20	0,340	
EX206-18G2		5,0	6,0	5/16-24UNF	5/32	0,6	19,50	11,20	0,430	
MUC206-18FD		-	5,0	-	3 mm	1,5	16,70	9,00	0,308	
UK207G2		-	5,8	-	-	-	25,70	15,20	0,550	
UC306-18G2		-	6,5	6,0	1/4-28UNF	1/8	1,5	27,00	15,20	0,580
EX306-18G2		-	6,5	6,7	5/16-24UNF	5/32	1,5	27,00	15,20	0,710
UK307G2		+ H2307-18	7,2	-	-	-	-	33,50	19,20	0,930
US206-19G2		+ H2307-19	5,0	6,0	1/4-28UNF	1/8	0,6	19,50	11,20	0,250
ES206-19G2	5,0		6,0	5/16-24UNF	5/32	0,6	19,50	11,20	0,310	
UC206-19G2	5,0		5,5	1/4-28UNF	1/8	0,6	19,50	11,20	0,310	
EX206-19G2	5,0		6,0	5/16-24UNF	5/32	0,6	19,50	11,20	0,400	
MUC206-19FD	-		5,0	-	3 mm	1,5	16,70	9,00	0,308	
SUC206-19	-		5,0	M6x1	3 mm	0,5	15,30	11,50	0,320	
SES206-19	-		6,0	M8x1	3 mm	0,5	15,30	11,50	0,320	
UK207G2	-		5,8	-	-	-	25,70	15,20	0,530	
UC306-19G2	-		6,5	6,0	1/4-28UNF	1/8	1,5	27,00	15,20	0,560
EX306-19G2	-		6,5	6,7	5/16-24UNF	5/32	1,5	27,00	15,20	0,680
UK307G2	+ H2307-19	7,2	-	-	-	-	33,50	19,20	0,910	
US206-20G2	+ H2308-20	5,0	6,0	1/4-28UNF	1/8	0,6	19,50	11,20	0,240	
ES206-20G2		5,0	6,0	5/16-24UNF	5/32	0,6	19,50	11,20	0,280	
UC206-20G2		5,0	5,5	1/4-28UNF	1/8	0,6	19,50	11,20	0,300	
EX206-20G2		5,0	6,0	5/16-24UNF	5/32	0,6	19,50	11,20	0,380	
MUC206-20FD		-	5,0	-	3 mm	1,5	16,70	9,00	0,308	
MUC207-20FD		-	6,0	-	4 mm	2,0	22,00	12,30	0,480	
SUC206-20		-	5,0	M6x1	3 mm	0,5	15,30	11,50	0,320	
SES206-20		-	6,0	M8x1	3 mm	0,5	15,30	11,50	0,320	
UK208G2		-	6,3	-	-	-	29,60	18,20	0,760	
UC307-20G2		+ H2308-20	7,2	8,0	5/16-24UNF	5/32	2,0	33,50	19,20	0,770

\* Hex set-screw

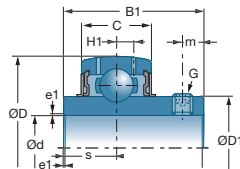
## Bearing-inserts (continued)




US



ES - SES



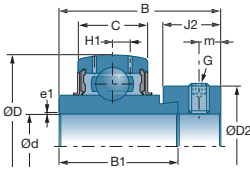
UC - SUC - MUC

d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2	
inch	References		mm	mm	mm	mm	mm	mm	mm	mm	mm	
1-1/4	EX307-20G2 UK308G2	+ H2308-20	80,0	25,0	51,6	38,1	-	17,5	18,3	-	55,0	
			90,0	28,0	46,0	35,0	10,0	-	-	56,5	58,0	
1-3/8	US207-22G2 ES207-22G2 UC207-22G2 EX207-22G2 MUC207-22FD SUC207-22 SES207-22 UK208G2 UC307-22G2 EX307-22G2 UK308G2	+ H2308-22	72,0	17,0	-	32,0	-	-	8,5	48,0	-	
			72,0	17,0	38,9	25,4	-	17,5	9,5	-	55,6	
			72,0	20,0	-	42,9	-	-	17,5	48,0-	-	-
			72,0	20,0	51,1	37,6	-	17,5	18,8	-	55,6	
			72,0	20,0	-	42,9	-	-	17,5	48,0	-	-
			72,0	20,0	-	42,9	-	-	-	17,5	-	-
			72,0	17,0	38,9	25,4	-	-	8,5	-	55,6	
			80,0	21,0	46,0	29,0	10,0	-	-	53,0	58,0	
			80,0	25,0	-	48,0	-	-	-	48,9	-	-
			80,0	25,0	51,6	38,1	-	17,5	18,3	-	55,0	
			90,0	28,0	46,0	35,0	10,0	-	-	56,5	58,0	
1-7/16	US207-23G2 ES207-23G2 UC207-23G2 EX207-23G2 MUC207-23FD SUC207-23 SES207-23 UK209G2 UC307-23G2 EX307-23G2 UK309G2	+ H2309-23	72,0	17,0	-	32,0	-	-	8,5	48,0	-	
			72,0	17,0	38,9	25,4	-	17,5	9,5	-	55,6	
			72,0	20,0	-	42,9	-	-	17,5	48,0	-	-
			72,0	20,0	51,1	37,6	-	17,5	18,8	-	55,6	
			72,0	20,0	-	42,9	-	-	17,5	48,0	-	-
			72,0	20,0	-	42,9	-	-	-	17,5	-	-
			72,0	17,0	38,9	25,4	-	-	8,5	-	55,6	
			85,0	22,0	50,0	30,0	11,0	-	-	57,2	65,0	
			80,0	25,0	-	48,0	-	-	-	48,9	-	-
			80,0	25,0	51,6	38,1	-	17,5	18,3	-	55,0	
			100,0	30,0	50,0	38,0	11,0	-	-	61,8	65,0	
1-1/2	US208-24G2 ES208-24G2 UC208-24G2 EX208-24G2 MUC208-24FD SUC208-24 SES208-24 UK209G2 UC308-24G2 EX308-24G2 UK309G2	+ H2309-24	80,0	18,0	-	34,0	-	-	9,0	53,0	-	
			80,0	18,0	43,7	30,2	-	18,3	11,0	-	60,3	
			80,0	21,0	-	49,2	-	-	19,0	53,0	-	-
			80,0	21,0	56,3	42,8	-	18,3	21,4	-	60,3	
			80,0	21,0	-	49,2	-	-	19,0	53,0	-	-
			80,0	21,0	-	49,2	-	-	19,0	-	-	-
			80,0	18,0	43,7	30,2	-	-	9,0	-	60,3	
			85,0	22,0	50,0	30,0	11,0	-	-	57,2	65,0	
			90,0	28,0	-	52,0	-	-	19,0	56,5	-	-
			90,0	28,0	57,1	41,3	-	20,6	19,8	-	63,5	
			100,0	30,0	50,0	38,0	11,0	-	-	61,8	65,0	
1-5/8	US209-26G2 ES209-26G2 UC209-26G2 EX209-26G2 UK210G2	+ H2310-26	85,0	19,0	-	41,2	-	-	10,2	57,2	-	
			85,0	19,0	43,7	30,2	-	18,3	11,0	-	63,5	
			85,0	22,0	-	49,2	-	-	19,0	57,2	-	-
			85,0	22,0	56,3	42,8	-	18,3	21,4	-	63,5	
			90,0	23,0	55,0	31,0	12,0	-	-	61,8	70,0	

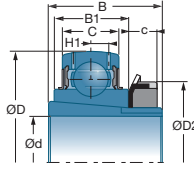








■ Bearing-inserts for self-aligning bearings unit (inch) (continued)



EX

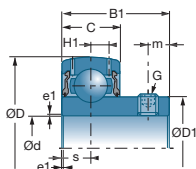


UK + H

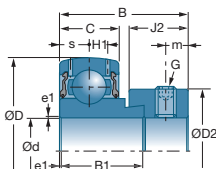
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10°N	10°N	kg
EX307-20G2 UK308G2	+ H2308-20	7,2 8,5	6,7 -	5/16-24UNF -	5/32 -	2,0 -	33,50 40,56	19,20 24,00	0,860 1,090
US207-22G2 ES207-22G2 UC207-22G2 EX207-22G2 MUC207-22FD SUC207-22 SES207-22 UK208G2 UC307-22G2 EX307-22G2 UK308G2	+ H2308-22	5,7 5,7 5,8 5,8 - - - 6,3 7,2 7,2 8,5	6,5 6,5 6,5 6,5 6,0 6,0 6,5 - 8,0 6,7 -	1/4-28UNF 5/16-24UNF 5/16-24UNF 5/16-24UNF - M8x1 M8x1 - 5/16-24UNF 5/16-24UNF -	5/32 5/32 5/32 5/32 4 mm 4 mm 4 mm - 5/32 5/32 -	0,6 1,1 1,1 1,1 2,0 1,0 1,0 - 2,0 2,0 -	25,70 25,70 25,70 25,70 22,00 20,10 20,10 29,60 33,50 33,50 40,56	15,20 15,20 15,20 15,20 12,30 15,60 15,60 18,20 19,20 19,20 24,00	0,380 0,510 0,480 0,610 0,480 0,470 0,510 0,740 0,710 0,800 1,090
US207-23G2 ES207-23G2 UC207-23G2 EX207-23G2 MUC207-23FD SUC207-23 SES207-23 UK209G2 UC307-23G2 EX307-23G2 UK309G2	+ H2309-23	5,7 5,7 5,8 5,8 - - - 6,8 7,2 7,2 9,0	6,5 6,5 6,5 6,5 6,0 6,0 6,5 - 8,0 6,7 -	1/4-28UNF 5/16-24UNF 5/16-24UNF 5/16-24UNF - M8x1 M8x1 - 5/16-24UNF 5/16-24UNF -	5/32 5/32 5/32 5/32 4 mm 4 mm 4 mm - 5/32 5/32 -	0,6 1,1 1,1 1,1 2,0 1,0 1,0 - 2,0 2,0 -	25,70 25,70 25,70 25,70 22,00 20,10 20,10 31,85 33,50 33,50 53,00	15,20 15,20 15,20 15,20 12,30 15,60 15,60 20,80 19,20 19,20 31,80	0,370 0,480 0,450 0,580 0,480 0,470 0,510 0,800 0,700 0,780 1,460
US208-24G2 ES208-24G2 UC208-24G2 EX208-24G2 MUC208-24FD SUC208-24 SES208-24 UK209G2 UC308-24G2 EX308-24G2 UK309G2	+ H2309-24	6,2 6,2 6,3 6,3 - - - 6,8 8,5 8,5 9,0	7,0 6,5 8,0 6,5 6,0 8,0 6,5 - 10,0 8,0 -	5/16-24UNF 5/16-24UNF 5/16-24UNF 5/16-24UNF - M8x1 M8x1 - 3/8-24UNF 3/8-24UNF -	5/32 5/32 5/32 5/32 4 mm 4 mm 4 mm - 3/16 3/16 -	1,1 1,1 1,1 1,1 2,0 1,0 1,0 - 2,0 2,0 -	29,60 29,60 29,60 29,60 24,90 22,80 22,80 31,85 40,56 40,56 53,00	18,20 18,20 18,20 18,20 14,30 18,20 18,20 20,80 24,00 24,00 31,80	0,600 0,680 0,680 0,830 0,621 0,630 0,640 0,840 1,000 1,130 1,500
US209-26G2 ES209-26G2 UC209-26G2 EX209-26G2 UK210G2	+ H2310-26	6,5 6,5 6,8 6,8 6,5	8,2 6,5 8,0 6,5 -	5/16-24UNF 5/16-24UNF 5/16-24UNF 5/16-24UNF -	5/32 5/32 5/32 5/32 -	1,1 1,1 1,1 1,1 -	31,85 31,85 31,85 31,85 35,10	20,80 20,80 20,80 20,80 23,20	0,750 0,820 0,780 0,960 1,000

\* Hex set-screw

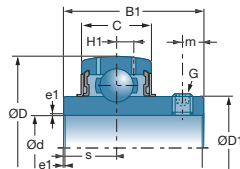
## Bearing-inserts (continued)




US



ES - SES

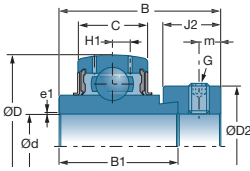


UC - SUC - MUC

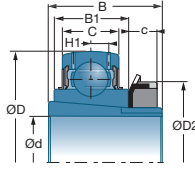
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
inch	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
1-5/8	UC309-26G2	+ H2310-26	100,0	30,0	-	57,0	-	-	22,0	61,8	-
	EX309-26G2		100,0	30,0	58,7	42,9	-	20,6	19,8	-	70,0
	UK310G2		110,0	32,0	55,0	40,0	12,0	-	-	68,7	70,0
1-11/16	US209-27G2	+ H2310-27	85,0	19,0	-	41,2	-	-	10,2	57,2	-
	ES209-27G2		85,0	19,0	43,7	30,2	-	18,3	11,0	-	63,5
	UC209-27G2		85,0	22,0	-	49,2	-	-	19,0	57,2	-
	EX209-27G2		85,0	22,0	56,3	42,8	-	18,3	21,4	-	63,5
	UK210G2		90,0	23,0	55,0	31,0	12,0	-	-	61,8	70,0
	UC309-27G2		100,0	30,0	-	57,0	-	-	22,0	61,8	-
	EX309-27G2		100,0	30,0	58,7	42,9	-	20,6	19,8	-	70,0
UK310G2	110,0	32,0	55,0	40,0	12,0	-	-	68,7	70,0		
1-3/4	US209-28G2	+ H2310-28	85,0	19,0	-	41,2	-	-	10,2	57,2	-
	ES209-28G2		85,0	19,0	43,7	30,2	-	18,3	11,0	-	63,5
	UC209-28G2		85,0	22,0	-	49,2	-	-	19,0	57,2	-
	EX209-28G2		85,0	22,0	56,3	42,8	-	18,3	21,4	-	63,5
	SUC209-28		85,0	22,0	-	49,2	-	-	19,0	-	-
	SES209-28		85,0	19,0	43,7	30,2	-	-	9,5	-	63,5
	UK210G2		90,0	23,0	55,0	31,0	12,0	-	-	61,8	70,0
	UC309-28G2		100,0	30,0	-	57,0	-	-	22,0	61,8	-
	EX309-28G2		100,0	30,0	58,7	42,9	-	20,6	19,8	-	70,0
	UK310G2		110,0	32,0	55,0	40,0	12,0	-	-	68,7	70,0
1-7/8	US210-30G2	+ H2311-30	90,0	20,0	-	43,5	-	-	10,9	61,8	-
	ES210-30G2		90,0	20,0	43,7	30,2	-	18,3	11,0	-	69,9
	UC210-30G2		90,0	23,0	-	51,6	-	-	19,0	61,8	-
	EX210-30G2		90,0	23,0	62,7	49,2	-	18,3	24,6	-	69,9
	UK211G2		100,0	25,0	59,0	33,0	12,5	-	-	69,0	75,0
	UC310-30G2		110,0	32,0	-	61,0	-	-	22,0	68,7	-
	EX310-30G2		110,0	32,0	66,6	49,2	-	22,2	24,6	-	76,2
UK311G2	120,0	34,0	59,0	43,0	12,5	-	-	74,9	75,0		
1-15/16	US210-31G2	+ H2311-31	90,0	20,0	-	43,5	-	-	10,9	61,8	-
	ES210-31G2		90,0	20,0	43,7	30,2	-	18,3	11,0	-	69,9
	UC210-31G2		90,0	23,0	-	51,6	-	-	19,0	61,8	-
	EX210-31G2		90,0	23,0	62,7	49,2	-	18,3	24,6	-	69,9
	SUC210-31		90,0	24,0	-	51,6	-	-	19,0	-	-
	SES210-31		90,0	20,0	43,7	30,2	-	-	10,0	-	69,9
	UK211G2		100,0	25,0	59,0	33,0	12,5	-	-	69,0	75,0
	UC310-31G2		110,0	32,0	-	61,0	-	-	22,0	68,7	-
	EX310-31G2		110,0	32,0	66,6	49,2	-	22,2	24,6	-	76,2
	UK311G2		120,0	34,0	59,0	43,0	12,5	-	-	74,9	75,0







■ Bearing-inserts for self-aligning bearings unit (inch) (continued)



EX

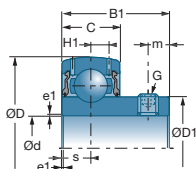


UK + H

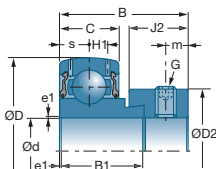
	Adapter sleeve	H1	m	G	a*	e1	 Cr	 C <sub>Or</sub>	
References		mm	mm		mm	mm	10°N	10°N	kg
UC309-26G2 ES309-26G2 UK310G2	+ H2310-26	9,0 9,0 9,9	10,0 8,0 -	3/8-24UNF 3/8-24UNF -	3/16 3/16 -	2,0 2,0 -	53,00 53,00 62,00	31,80 31,80 37,80	1,360 1,570 1,680
US209-27G2 ES209-27G2 UC209-27G2 EX209-27G2 UK210G2 UC309-27G2 ES309-27G2 UK310G2	+ H2310-27       + H2310-27	6,5 6,5 6,8 6,8 6,5 9,0 9,0 9,9	8,2 6,5 8,0 6,5 - 10,0 8,0 -	5/16-24UNF 5/16-24UNF 5/16-24UNF 5/16-24UNF - 3/8-24UNF 3/8-24UNF -	5/32 5/32 5/32 5/32 - 3/16 3/16 -	1,1 1,1 1,1 1,1 - 2,0 2,0 -	31,85 31,85 31,85 31,85 35,10 53,00 53,00 62,00	20,80 20,80 20,80 20,80 23,20 31,80 31,80 37,80	0,720 0,760 0,740 0,910 0,990 1,330 1,520 1,780
US209-28G2 ES209-28G2 UC209-28G2 EX209-28G2 SUC209-28 SES209-28 UK210G2 UC309-28G2 EX309-28G2 UK310G2	+ H2310-28       + H2310-28	6,5 6,5 6,8 6,8 - - 6,5 9,0 9,0 9,9	8,2 6,5 8,0 6,5 8,0 6,5 - 10,0 8,0 -	5/16-24UNF 5/16-24UNF 5/16-24UNF 5/16-24UNF M10x1,25 M8x1 - 3/8-24UNF 3/8-24UNF -	5/32 5/32 5/32 5/32 5 mm 4 mm - 3/16 3/16 -	1,1 1,1 1,1 1,1 1,0 1,0 - 2,0 2,0 -	31,85 31,85 31,85 31,85 25,70 25,70 35,10 53,00 53,00 62,00	20,80 20,80 20,80 20,80 20,80 20,80 23,20 31,80 31,80 37,80	0,670 0,730 0,700 0,870 0,690 0,670 0,950 1,300 1,470 1,740
US210-30G2 ES210-30G2 UC210-30G2 EX210-30G2 UK211G2 UC310-30G2 EX310-30G2 UK311G2	+ H2311-30       + H2311-30	6,5 6,5 6,5 6,5 7,2 9,9 9,9 10,6	9,2 6,5 9,0 6,5 - 12,0 8,7 -	5/16-24UNF 5/16-24UNF 3/8-24UNF 5/16-24UNF - 7/16-20UNF 3/8-24UNF -	5/32 5/32 3/16 5/32 - 7/32 3/16 -	1,1 1,1 1,1 1,1 - 2,0 2,0 -	35,10 35,10 35,10 35,10 43,55 62,00 62,00 71,50	23,20 23,20 23,20 23,20 29,20 37,80 37,80 44,80	0,800 0,850 0,870 1,100 1,200 1,740 1,930 2,210
US210-31G2 ES210-31G2 UC210-31G2 EX210-31G2 SUC210-31 SES210-31 UK211G2 UC310-31G2 EX310-31G2 UK311G2	+ H2311-31       + H2311-31	6,5 6,5 6,5 6,5 - - 7,2 9,9 9,9 10,6	9,2 6,5 9,0 6,5 10,0 6,5 - 12,0 8,7 -	5/16-24UNF 5/16-24UNF 3/8-24UNF 5/16-24UNF M10x1,25 M8x1 - 7/16-20UNF 3/8-24UNF -	5/32 5/32 3/16 5/32 5 mm 4 mm - 7/32 3/16 -	1,1 1,1 1,1 1,1 1,0 1,0 - 2,0 2,0 -	35,10 35,10 35,10 35,10 27,50 27,50 43,55 62,00 62,00 71,50	23,20 23,20 23,20 23,20 23,70 23,70 29,20 37,80 37,80 44,80	0,780 0,830 0,820 1,040 0,770 0,750 1,190 1,680 1,880 2,200

\* Hex set-screw

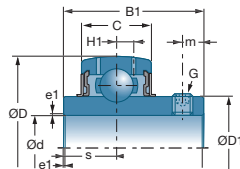
## Bearing-inserts (continued)




US



ES - SES

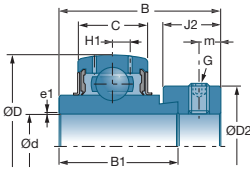


UC - SUC - MUC

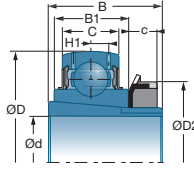
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2	
inch	References		mm	mm	mm	mm	mm	mm	mm	mm	mm	
2	US211-32G2	+ H2311-32	100,0	23,0	-	45,3	-	-	11,8	69,0	-	
	ES211-32G2		100,0	24,0	48,4	32,5	-	20,7	12,0	-	76,2	
	UC211-32G2		100,0	25,0	-	55,6	-	-	22,2	69,0	-	
	EX211-32G2		100,0	25,0	71,3	55,4	-	20,7	27,7	-	76,2	
	SUC211-32		100,0	25,0	-	55,6	-	-	22,2	-	-	
	SES211-32		100,0	21,0	48,4	32,5	-	-	10,5	-	76,2	
	UK211G2		100,0	25,0	59,0	33,0	12,5	-	-	69,0	75,0	
	UC311-32G2		120,0	34,0	-	66,0	-	-	25,0	74,9	-	
	EX311-32G2		120,0	34,0	73,0	55,6	-	22,2	27,8	-	83,0	
UK311G2	+ H2311-32	120,0	34,0	59,0	43,0	12,5	-	-	74,9	75,0		
2-3/16	US211-35G2	+ H2313-35	100,0	23,0	-	45,3	-	-	11,8	69,0	-	
	ES211-35G2		100,0	24,0	48,4	32,5	-	20,7	12,0	-	76,2	
	UC211-35G2		100,0	25,0	-	55,6	-	-	22,2	69,0	-	
	EX211-35G2		100,0	25,0	71,3	55,4	-	20,7	27,7	-	76,2	
	SUC211-35		100,0	25,0	-	55,6	-	-	22,2	-	-	
	UK213G2		120,0	28,0	65,0	36,0	14,0	-	-	82,0	85,0	
	UC311-35G2		120,0	34,0	-	66,0	-	-	25,0	74,9	-	
	EX311-35G2		120,0	34,0	73,0	55,6	-	22,2	27,8	-	83,0	
	UK313G2		+ H2313-35	140,0	38,0	65,0	49,0	14,0	-	-	87,5	85,0
2-1/4	ES212-36G2	+ H2313-36	110,0	24,0	49,3	33,4	-	22,3	12,0	-	84,2	
	US212-36G2		110,0	24,0	-	53,7	-	-	14,9	74,9	-	
	UC212-36G2		110,0	27,0	-	65,1	-	-	25,4	74,9	-	
	EX212-36G2		110,0	27,0	77,7	61,8	-	22,3	30,9	-	84,2	
	UK213G2		120,0	28,0	65,0	36,0	14,0	-	-	82,0	85,0	
	UC312-36G2		130,0	36,0	-	71,0	-	-	26,0	81,0	-	
	EX312-36G2		130,0	36,0	79,4	61,9	-	23,9	31,0	-	89,0	
	UK313G2		+ H2313-36	140,0	38,0	65,0	49,0	14,0	-	-	87,5	85,0
	2-7/16		ES212-39G2	+ H2315-39	110,0	24,0	49,3	33,4	-	22,3	12,0	-
US212-39G2		110,0	24,0		-	53,7	-	-	14,9	74,9	-	
UC212-39G2		110,0	27,0		-	65,1	-	-	25,4	74,9	-	
EX212-39G2		110,0	27,0		77,7	61,8	-	22,3	30,9	-	84,2	
SUC212-39		110,0	27,0		-	65,1	-	-	25,4	-	-	
UK215G2		130,0	30,0		73,0	41,0	15,0	-	-	91,5	98,0	
UC312-39G2		130,0	36,0		-	71,0	-	-	26,0	81,0	-	
EX312-39G2		130,0	36,0		79,4	61,9	-	23,9	31,0	-	89,0	
UK315G2		+ H2315-39	160,0		42,0	73,0	55,0	15,0	-	-	100,5	98,0
2-1/2	UC213-40G2	+ H2315-40	120,0	28,0	-	65,1	-	-	25,4	82,0	-	
	EX213-40G2		120,0	28,0	85,7	68,2	-	23,5	34,1	-	86,0	
	UK215G2		130,0	30,0	73,0	41,0	15,0	-	-	91,5	98,0	
	UC313-40G2		140,0	38,0	-	75,0	-	-	30,0	87,5	-	







■ Bearing-inserts for self-aligning bearings unit (inch) (continued)



EX

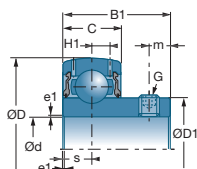


UK + H

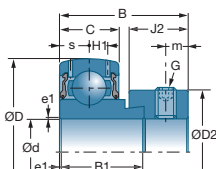
	Adapter sleeve	H1	m	G	a*	e1				
References		mm	mm		mm	mm	10°N	10°N	kg	
US211-32G2	+ H2311-32	7,2	9,8	5/16-24UNF	5/32	1,1	43,55	29,20	1,100	
ES211-32G2		7,2	8,0	3/8-24UNF	3/16	1,1	43,55	29,20	1,180	
UC211-32G2		7,2	9,0	3/8-24UNF	3/16	1,1	43,55	29,20	1,270	
EX211-32G2		7,2	8,0	3/8-24UNF	3/16	1,5	43,55	29,20	1,580	
SUC211-32		-	10,0	M10x1,25	5 mm	1,0	34,00	25,50	1,060	
SES211-32		-	8,0	M10x1,25	5 mm	1,0	34,00	25,50	1,030	
UK211G2		-	-	-	-	-	-	43,55	29,20	1,130
UC311-32G2		10,6	12,0	7/16-20UNF	7/32	2,0	71,50	44,80	2,080	
EX311-32G2		10,6	9,0	3/8-24UNF	3/16	2,0	71,50	44,80	2,490	
UK311G2		10,6	-	-	-	-	-	71,50	44,80	2,140
US211-35G2	+ H2313-35	7,2	9,8	5/16-24UNF	5/32	1,1	43,55	29,20	1,050	
ES211-35G2		7,2	8,0	3/8-24UNF	3/16	1,1	43,55	29,20	0,810	
UC211-35G2		7,2	9,0	3/8-24UNF	3/16	1,1	43,55	29,20	1,100	
EX211-35G2		7,2	8,0	3/8-24UNF	3/16	1,5	43,55	29,20	1,360	
SUC211-35		-	10,0	M10x1,25	5 mm	1,0	34,00	25,50	1,060	
UK213G2		8,0	-	-	-	-	57,20	40,00	2,110	
UC311-35G2		10,6	12,0	7/16-20UNF	7/32	2,0	71,50	44,80	1,870	
EX311-35G2		10,6	9,0	3/8-24UNF	3/16	2,0	71,50	44,80	2,240	
UK313G2		12,1	-	-	-	-	93,86	60,50	3,460	
ES212-36G2		+ H2313-36	8,0	8,0	3/8-24UNF	3/16	1,1	52,50	32,80	1,300
US212-36G2	8,0		9,8	3/8-24UNF	3/16	1,1	52,50	32,80	1,300	
UC212-36G2	8,2		10,5	3/8-24UNF	3/16	1,1	52,50	32,80	1,670	
EX212-36G2	8,2		8,0	3/8-24UNF	3/16	1,5	52,50	32,80	2,030	
UK213G2	8,0		-	-	-	-	57,20	40,00	2,010	
UC312-36G2	11,3		12,0	7/16-20UNF	7/32	2,0	81,60	51,80	2,650	
EX312-36G2	11,3		9,0	3/8-24UNF	3/16	2,0	81,60	51,80	2,950	
UK313G2	12,1		-	-	-	-	93,86	60,50	3,360	
ES212-39G2	+ H2315-39		8,0	8,0	3/8-24UNF	3/16	1,1	52,50	32,80	1,090
US212-39G2			8,0	9,8	3/8-24UNF	3/16	1,1	52,50	32,80	1,220
UC212-39G2		8,2	10,5	3/8-24UNF	3/16	1,1	52,50	32,80	1,450	
EX212-39G2		8,2	8,0	3/8-24UNF	3/16	1,5	52,50	32,80	1,760	
SUC212-39		-	10,0	M10x1,25	5 mm	1,0	41,00	31,50	1,470	
UK215G2		9,0	-	-	-	-	66,00	49,50	2,820	
UC312-39G2		11,3	12,0	7/16-20UNF	7/32	2,0	81,60	51,80	2,500	
EX312-39G2		11,3	9,0	3/8-24UNF	3/16	2,0	81,60	51,80	2,860	
UK315G2		13,5	-	-	-	-	113,36	76,80	5,130	
UC213-40G2		+ H2315-40	8,0	12,0	3/8-24UNF	3/16	1,5	57,20	40,00	1,940
EX213-40G2	8,0		8,5	3/8-24UNF	3/16	1,5	57,20	40,00	2,510	
UK215G2	9,0		-	-	-	-	66,00	49,50	2,810	
UC313-40G2	12,1		12,0	7/16-20UNF	7/32	2,0	93,86	60,50	3,300	

\* Hex set-screw

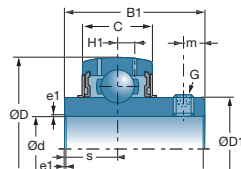
## Bearing-inserts (continued)




US



ES - SES

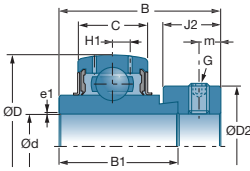


UC - SUC - MUC

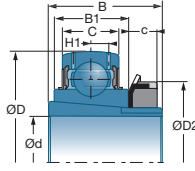
d		Adapter sleeve	D	C	B	B1	c	J2	s	D1	D2
inch	References		mm	mm	mm	mm	mm	mm	mm	mm	mm
2-1/2	EX313-40G2	+ H2315-40	140,0	38,0	85,7	65,1	-	27,0	32,5	-	97,0
	UK315G2		160,0	42,0	73,0	55,0	15,0	-	-	100,5	98,0
2-11/16	UC214-43G2	+ H2316-43	125,0	30,0	-	74,6	-	-	30,2	86,5	-
	EX214-43G2		125,0	30,0	85,7	68,2	-	23,5	34,1	-	96,8
	UK216G2		140,0	33,0	78,0	44,0	17,0	-	-	98,0	105,0
	UC314-43G2		150,0	40,0	-	78,0	-	-	33,0	94,0	-
	EX314-43G2		150,0	40,0	92,1	68,3	-	30,2	34,2	-	102,0
UK316G2	+ H2316-43	170,0	44,0	78,0	55,0	17,0	-	-	107,9	105,0	
2-3/4	UC214-44G2	+ H2316-44	125,0	30,0	-	74,6	-	-	30,2	86,5	-
	EX214-44G2		125,0	30,0	85,7	68,2	-	23,5	34,1	-	96,8
	UK216G2		140,0	33,0	78,0	44,0	17,0	-	-	98,0	105,0
	UC314-44G2		150,0	40,0	-	78,0	-	-	33,0	94,0	-
	EX314-44G2		150,0	40,0	92,1	68,3	-	30,2	34,2	-	102,0
UK316G2	+ H2316-44	170,0	44,0	78,0	55,0	17,0	-	-	107,9	105,0	
2-15/16	UC215-47G2	+ H2317-47	130,0	30,0	-	77,8	-	-	33,3	91,5	-
	EX215-47G2		130,0	30,0	92,1	74,6	-	23,9	37,3	-	102,0
	UK217G2		150,0	35,0	82,0	44,0	18,0	-	-	105,1	110,0
	UC315-47G2		160,0	42,0	-	82,0	-	-	32,0	100,5	-
	EX315-47G2		160,0	42,0	100,0	74,6	-	31,8	37,3	-	113,0
UK317G2	+ H2317-47	180,0	46,0	82,0	60,0	18,0	-	-	114,0	110,0	
3	UC215-48G2	+ H2317-48	130,0	30,0	-	77,8	-	-	33,3	91,5	-
	EX215-48G2		130,0	30,0	92,1	74,6	-	23,9	37,3	-	102,0
	UK217G2		150,0	35,0	82,0	44,0	18,0	-	-	105,1	110,0
	UC315-48G2		160,0	42,0	-	82,0	-	-	32,0	100,5	-
	EX315-48G2		160,0	42,0	100,0	74,6	-	31,8	37,3	-	113,0
UK317G2	+ H2317-48	180,0	46,0	82,0	60,0	18,0	-	-	114,0	110,0	
3-1/4	EX217-52G2	+ H2319-55	150,0	35,0	73,2	53,2	-	27,0	23,4	-	119,0
	UC217-52G2		150,0	35,0	-	85,7	-	-	34,1	105,1	-
	UC317-52G2		180,0	46,0	-	96,0	-	-	40,0	114,0	-
	EX317-52G2		180,0	46,0	109,5	84,1	-	31,8	42,0	-	127,0
	UK319G2		200,0	50,0	90,0	66,0	19,0	-	-	126,5	125,0
3-1/2	EX218-56G2	+ H2320-56	160,0	37,0	72,5	55,0	-	24,0	24,5	-	120,0
	UC218-56G2		160,0	37,0	-	96,0	-	-	39,7	111,0	-
	UC318-56G2		190,0	48,0	-	96,0	-	-	40,0	120,0	-
	EX318-56G2		190,0	48,0	115,9	87,3	-	36,5	43,6	-	133,0
	UK320G2		215,0	54,0	97,0	68,0	20,0	-	-	134,5	130,0







■ Bearing-inserts for self-aligning bearings unit (inch) (continued)



EX

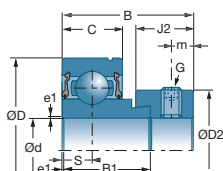


UK + H

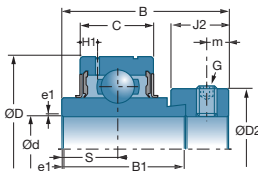
	Adapter sleeve	H1	m	G	a*	e1			
References		mm	mm		mm	mm	10°N	10°N	kg
EX313-40G2 UK315G2	+ H2315-40	12,1 13,5	11,5 -	7/16-20UNF -	7,32 -	2,0 -	93,86 113,36	60,50 76,80	3,850 5,100
UC214-43G2 EX214-43G2 UK216G2 UC314-43G2 EX314-43G2 UK316G2	+ H2316-43	9,0 9,0 10,3 12,8 12,8 14,5	12,0 8,5 - 12,0 12,0 -	3/8-24UNF 3/8-24UNF - 7/16-20UNF 7/16-20UNF -	3/16 3/16 - 7/32 7/32 -	2,0 2,0 - 2,5 2,5 -	62,00 62,00 72,50 104,26 104,26 122,85	45,00 45,00 54,20 68,00 68,00 86,50	2,020 2,620 3,260 4,000 4,450 5,850
UC214-44G2 EX214-44G2 UK216G2 UC314-44G2 EX314-44G2 UK316G2	+ H2316-44	9,0 9,0 10,3 12,8 12,8 14,5	12,0 8,5 - 12,0 12,0 -	7/16-20UNF 3/8-24UNF - 7/16-20UNF 7/16-20UNF -	7/32 3/16 - 7/32 7/32 -	2,0 2,0 - 2,5 2,5 -	62,00 62,00 72,50 104,26 104,26 122,85	45,00 45,00 54,20 68,00 68,00 86,50	2,060 2,580 3,160 3,960 4,400 5,750
UC215-47G2 EX215-47G2 UK217G2 UC315-47G2 EX315-47G2 UK317G2	+ H2317-47	9,0 9,0 11,0 13,5 13,5 15,5	12,0 8,5 - 14,0 13,0 -	7/16-20UNF 3/8-24UNF - 1/2-20UNF 1/2-20UNF -	7/32 3/16 - 1/4 5/16 -	2,0 2,0 - 2,5 2,5 -	66,00 66,00 83,20 113,36 113,36 132,60	49,50 49,50 63,80 76,80 76,80 96,50	2,300 2,800 3,820 4,290 5,400 6,840
UC215-48G2 EX215-48G2 UK217G2 UC315-48G2 EX315-48G2 UK317G2	+ H2317-48	9,0 9,0 11,0 13,5 13,5 15,5	12,0 8,5 - 14,0 13,0 -	7/16-20UNF 3/8-24UNF - 1/2-20UNF 5/8-18UNF -	7/32 3/16 - 1/4 5/16 -	2,0 2,0 - 2,5 2,5 -	66,00 66,00 83,20 113,36 113,36 132,60	49,50 49,50 63,80 76,80 76,80 96,50	2,130 2,740 3,720 4,240 5,280 6,740
EX217-52G2 UC217-52G2 UC317-52G2 EX317-52G2 UK319G2	+ H2319-55	11,0 11,0 15,5 15,5 16,7	10,0 14,0 16,0 14,0 -	7/16-20UNF 7/16-20UNF 5/8-18UNF 5/8-18UNF -	7/32 7/32 5/16 5/16 -	2,0 2,0 3,0 3,0 -	83,20 83,20 132,60 132,60 156,00	63,80 63,80 96,50 96,50 122,00	3,650 3,320 6,760 7,880 9,660
EX218-56G2 UC218-56G2 UC318-56G2 EX318-56G2 UK320G2	+ H2320-56	10,3 12,0 16,5 16,5 19,0	9,5 14,0 16,0 14,5 -	7/16-20UNF 1/2-20UNF 5/8-18UNF 3/4-16UNF -	7/32 7/32 5/16 3/8 -	2,0 2,0 3,5 3,0 -	96,00 96,00 143,00 143,00 171,60	71,50 71,50 108,00 108,00 140,00	5,000 4,560 8,030 9,200 10,620

\* Hex set-screw

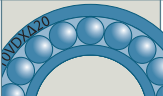
## Bearing-inserts (continued)



**CES**



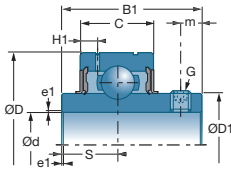
**CEX**

d		D	C	B	B1	J2	s	D1	D2
mm	References	mm	mm	mm	mm	mm	mm	mm	mm
<b>20</b>	CES 204	47,0	14,0	31,0	21,5	13,5	7,0	–	33,3
	CEX 204	47,0	17,0	43,7	34,2	13,5	17,1	–	33,3
	CUC 204	47,0	17,0	–	31,0	–	12,7	29,0	–
	CUS 204	47,0	14,0	–	25,0	–	7,0	28,3	–
<b>25</b>	CES 205	52,0	15,0	31,0	21,5	13,5	7,5	–	38,1
	CEX 205	52,0	17,0	44,4	34,9	13,5	17,5	–	38,1
	CUC 205	52,0	17,0	–	34,0	–	14,3	34,0	–
	CUS 205	52,0	15,0	–	27,0	–	7,5	34,0	–
<b>30</b>	CES 206	62,0	16,0	35,7	23,8	15,9	8,0	–	44,5
	CEX 206	62,0	19,0	48,4	36,5	15,9	18,3	–	44,5
	CUC 206	62,0	19,0	–	38,1	–	15,9	40,3	–
	CUS 206	62,0	16,0	–	30,0	–	8,0	40,0	–
<b>35</b>	CES 207	72,0	17,0	38,9	25,4	17,5	8,5	–	55,6
	CEX 207	72,0	20,0	51,1	37,6	17,5	18,8	–	55,6
	CUC 207	72,0	20,0	–	42,9	–	17,5	46,9	–
	CUS 207	72,0	17,0	–	32,0	–	8,5	46,9	–
<b>40</b>	CES 208	80,0	18,0	43,7	30,2	18,3	9,0	–	60,3
	CEX 208	80,0	21,0	56,3	42,8	18,3	21,4	–	60,3
	CUC 208	80,0	21,0	–	49,2	–	19,0	53,0	–
	CUS 208	80,0	18,0	–	34,0	–	9,0	52,4	–
<b>45</b>	CES 209	85,0	19,0	43,7	30,2	18,3	9,5	–	63,5
	CEX 209	85,0	22,0	56,3	42,8	18,3	21,4	–	63,5
	CUC 209	85,0	22,0	–	49,2	–	19,0	57,2	–
	CUS 209	85,0	19,0	–	41,2	–	9,5	57,6	–
<b>50</b>	CES 210	90,0	20,0	43,7	30,2	18,3	10,0	–	69,9
	CEX 210	90,0	24,0	62,7	49,2	18,3	24,6	–	69,9
	CUC 210	90,0	23,0	–	51,6	–	19,0	61,8	–
	CUS 210	90,0	20,0	–	43,5	–	10,0	63,2	–

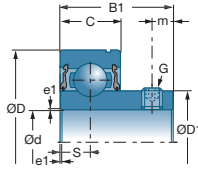








■ Bearing-inserts with cylindrical outside diameter (mm)



CUC

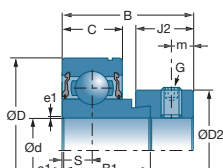


CUS

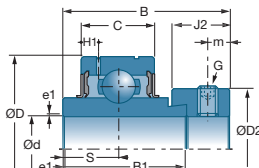
	H1	m	G	a*	e1	 Cr	 Cor	
	mm	mm		mm	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
References								
CES 204	–	5,0	M6x1	3	1,0	12,8	6,7	0,15
CEX 204	4,0	5,0	M6x1	3	1,0	12,8	6,7	0,22
CUC 204	4,0	4,5	M6x1	3	0,6	12,8	6,7	0,20
CUS 204	–	5,0	M6x1	3	1,0	12,8	6,7	0,13
CES 205	–	5,0	M6x1	3	1,0	14,0	7,9	0,19
CEX 205	4,1	5,0	M6x1	3	1,0	14,0	7,9	0,25
CUC 205	4,1	5,0	M6x1	3	0,6	14,0	7,9	0,21
CUS 205	–	5,0	M6x1	3	1,0	14,0	7,9	0,17
CES 206	–	6,0	M6x1	3	1,0	19,5	11,2	0,33
CEX 206	4,2	6,0	M6x1	3	1,0	19,5	11,2	0,41
CUC 206	4,2	5,5	M6x1	3	0,6	19,5	11,2	0,35
CUS 206	–	5,5	M6x1	3	1,0	19,5	11,2	0,27
CES 207	–	6,5	M8x1	4	1,5	25,7	15,2	0,50
CEX 207	5,0	6,5	M8x1	4	1,5	25,7	15,2	0,60
CUC 207	5,0	6,5	M8x1	4	1,1	25,7	15,2	0,47
CUS 207	–	6,0	M6x1	4	1,0	25,7	15,2	0,42
CES 208	–	6,5	M8x1	4	1,5	29,6	18,2	0,65
CEX 208	5,0	6,5	M8x1	4	1,5	29,6	18,2	0,78
CUC 208	5,0	8,0	M8x1	4	1,1	29,6	18,2	0,64
CUS 208	–	8,0	M8x1	4	1,0	31,9	20,8	0,48
CES 209	–	6,5	M8x1	4	1,5	31,9	20,8	0,69
CEX 209	5,1	6,5	M8x1	4	1,5	31,9	20,8	0,87
CUC 209	5,1	8,0	M8x1	4	1,1	31,9	20,8	0,68
CUS 209	–	8,0	M8x1	4	1,5	31,9	20,8	0,57
CES 210	–	6,5	M8x1	4	1,5	35,1	23,2	0,80
CEX 210	5,6	6,5	M8x1	4	1,5	35,1	23,2	1,01
CUC 210	5,6	9,0	M10x1,25	5	1,1	35,1	23,2	0,80
CUS 210	–	9,0	M8x1	4	1,5	35,1	23,2	0,66

\* Hex set-screw

## Bearing-inserts (continued)



**CES**

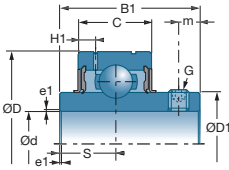


**CEX**

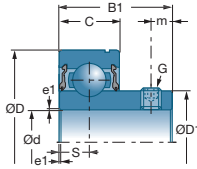
d		D	C	B	B1	J2	s	D1	D2
inch	References	mm	mm	mm	mm	mm	mm	mm	mm
<b>3/4</b>	CES 204-12	47	14	31	21,5	13,5	7	–	33,3
	CEX 204-12	47	17	43,7	34,2	13,5	17,1	–	33,3
	CUC 204-12	47	17	–	31	–	12,7	29	–
	CUS 204-12	47	14	–	25	–	7	28,3	–
<b>7/8</b>	CES 205-14	52	15	31	21,5	13,5	7,5	–	38,1
	CEX 205-14	52	17	44,4	34,9	13,5	17,5	–	38,1
	CUC 205-14	52	17	–	34	–	14,3	34	–
	CUS 205-14	52	15	–	27	–	7,5	34	–
<b>15/16</b>	CES 205-15	52	15	31	21,5	13,5	7,5	–	38,1
	CEX 205-15	52	17	44,4	34,9	13,5	17,5	–	38,1
	CUC 205-15	52	17	–	34	–	14,3	34	–
	CUS 205-15	52	15	–	27	–	7,5	34	–
<b>1</b>	CES 205-16	52	15	31	21,5	13,5	7,5	–	38,1
	CEX 205-16	52	17	44,4	34,9	13,5	17,5	–	38,1
	CUC 205-16	52	17	–	34	–	14,3	34	–
	CUS 205-16	52	15	–	27	–	7,5	34	–
<b>1-1/8</b>	CES 206-18	62	16	35,7	23,8	15,9	8	–	44,5
	CEX 206-18	62	19	48,4	36,5	15,9	18,3	–	44,5
	CUC 206-18	62	19	–	38,1	–	15,9	40,3	–
	CUS 206-18	62	16	–	30	–	8	40	–
<b>1-3/16</b>	CES 206-19	62	16	35,7	23,8	15,9	8	–	44,5
	CEX 206-19	62	19	48,4	36,5	15,9	18,3	–	44,5
	CUC 206-19	62	19	–	38,1	–	15,9	40,3	–
	CUS 206-19	62	16	–	30	–	8	40	–
<b>1-1/4</b>	CES 206-20	62	16	35,7	23,8	15,9	8	–	44,5
	CEX 206-20	62	19	48,4	36,5	15,9	18,3	–	44,5
	CUC 206-20	62	19	–	38,1	–	15,9	40,3	–
	CUS 206-20	62	16	–	30	–	8	40	–
<b>1-3/8</b>	CES 207-22	72	17	38,9	25,4	17,5	8,5	–	55,6
	CEX 207-22	72	20	51,1	37,6	17,5	18,8	–	55,5
	CUC 207-22	72	20	–	42,9	–	17,5	46,9	–
	CUS 207-22	72	17	–	32	–	8,5	46,9	–






■ Bearing-inserts with cylindrical outside diameter (inch)



CUC

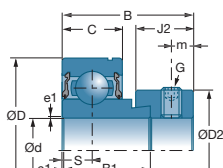


CUS

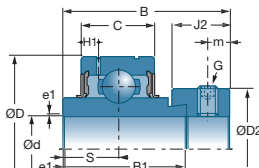
References	H1	m	G	a*	e1			
	mm	mm		inch	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
CES 204-12	–	5	1/4-28UNF	1/8	1,0	12,8	6,65	0,15
CEX 204-12	4	5	1/4-28UNF	1/8	1,0	12,8	6,65	0,22
CUC 204-12	4	4,5	1/4-28UNF	1/8	0,6	12,8	6,65	0,20
CUS 204-12	–	5	1/4-28UNF	1/8	1,0	12,8	6,65	0,13
CES 205-14	–	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,19
CEX 205-14	4,1	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,25
CUC 205-14	4,1	5	1/4-28UNF	1/8	0,6	14,0	7,88	0,21
CUS 205-14	–	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,18
CES 205-15	–	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,19
CEX 205-15	4,1	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,25
CUC 205-15	4,1	5	1/4-28UNF	1/8	0,6	14,0	7,88	0,21
CUS 205-15	–	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,18
CES 205-16	–	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,18
CEX 205-16	4,1	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,24
CUC 205-16	4,1	5	1/4-28UNF	1/8	0,6	14,0	7,88	0,21
CUS 205-16	–	5	1/4-28UNF	1/8	1,0	14,0	7,88	0,18
CES 206-18	–	6	5/16-24UNF	5/32	1,0	19,5	11,2	0,35
CEX 206-18	4,2	6	5/16-24UNF	5/32	1,0	19,5	11,2	0,43
CUC 206-18	4,2	5,5	1/4-28UNF	1/8	0,6	19,5	11,2	0,34
CUS 206-18	–	5,5	1/4-28UNF	1/8	1,0	19,5	11,2	0,28
CES 206-19	–	6	5/16-24UNF	5/32	1,0	19,5	11,2	0,31
CEX 206-19	4,2	6	5/16-24UNF	5/32	1,0	19,5	11,2	0,40
CUC 206-19	4,2	5,5	1/4-28UNF	1/8	0,6	19,5	11,2	0,31
CUS 206-19	–	5,5	1/4-28UNF	1/8	1,0	19,5	11,2	0,25
CES 206-20	–	6	5/16-24UNF	5/32	1,0	19,5	11,2	0,28
CEX 206-20	4,2	6	5/16-24UNF	5/32	1,0	19,5	11,2	0,38
CUC 206-20	4,2	5,5	1/4-28UNF	1/8	0,6	19,5	11,2	0,30
CUS 206-20	–	5,5	1/4-28UNF	1/8	1,0	19,5	11,2	0,24
CES 207-22	–	6,5	5/16-24UNF	5/32	1,5	25,7	15,2	0,51
CEX 207-22	5	6,5	5/16-24UNF	5/32	1,5	25,7	15,2	0,61
CUC 207-22	5	6,5	5/16-24UNF	5/32	1,1	25,7	15,2	0,48
CUS 207-22	–	6	1/4-28UNF	1/8	1,0	25,7	15,2	0,38

\* Hex set-screw

## Bearing-inserts (continued)



**CES**

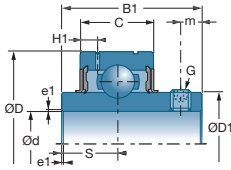


**CEX**

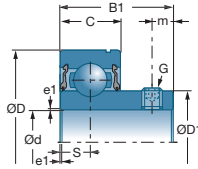
d		D	C	B	B1	J2	s	D1	D2
inch	References	mm	mm	mm	mm	mm	mm	mm	mm
<b>1-7/16</b>	CES 207-23	72	17	38,9	25,4	17,5	8,5	–	55,6
	CEX 207-23	72	20	51,1	37,6	17,5	18,8	–	–
	CUC 207-23	72	20	–	42,9	–	17,5	46,9	55,5
	CUS 207-23	72	17	–	32	–	8,5	46,9	–
<b>1-1/2</b>	CES 208-24	80	18	43,7	30,2	18,3	9	–	60,3
	CEX 208-24	80	21	56,3	42,8	18,3	21,4	–	60,3
	CUC 208-24	80	21	–	49,2	–	19	53	–
	CUS 208-24	80	18	–	34	–	9	52,4	–
<b>1-5/8</b>	CES 209-26	85	19	43,7	30,2	18,3	9,5	–	63,5
	CEX 209-26	85	22	56,3	42,8	18,3	21,4	–	63,5
	CUC 209-26	85	22	–	49,2	–	19	57,2	–
	CUS 209-26	85	19	–	41,2	–	9,5	57,6	–
<b>1-11/16</b>	CES 209-27	85	19	43,7	30,2	18,3	9,5	–	63,5
	CEX 209-27	85	22	56,3	42,8	18,3	21,4	–	63,5
	CUC 209-27	85	22	–	49,2	–	19	57,2	–
	CUS 209-27	85	19	–	41,2	–	9,5	57,6	–
<b>1-3/4</b>	CES 209-28	85	19	43,7	30,2	18,3	9,5	–	63,5
	CEX 209-28	85	22	56,3	42,8	18,3	21,4	–	63,5
	CUC 209-28	85	22	–	49,2	–	19	57,2	–
	CUS 209-28	85	19	–	41,2	–	9,5	57,6	–
<b>1-7/8</b>	CES 210-30	90	20	43,7	30,2	18,3	10	–	69,9
	CEX 210-30	90	24	62,7	49,2	18,3	24,6	–	69,5
	CUC 210-30	90	23	–	51,6	–	19	61,8	–
	CUS 210-30	90	20	–	43,5	–	10	63,2	–
<b>1-15/16</b>	CES 210-31	90	20	43,7	30,2	18,3	10	–	69,9
	CEX 210-31	90	24	62,7	49,2	18,3	24,6	–	69,5
	CUC 210-31	90	23	–	51,6	–	19	61,8	–
	CUS 210-31	90	20	–	43,5	–	10	63,2	–







■ Bearing-inserts with cylindrical outside diameter (inch) (continued)



CUC



CUS

	H1	m	G	a*	e1			
	mm	mm		inch	mm	10 <sup>3</sup> N	10 <sup>3</sup> N	kg
References								
CES 207-23	–	6,5	5/16-24UNF	5/32	1,5	25,7	15,2	0,48
CEX 207-23	5	6,5	5/16-24UNF	5/32	1,5	25,7	15,2	0,58
CUC 207-23	5	6,5	5/16-24UNF	5/32	1,1	25,7	15,2	0,45
CUS 207-23	–	6	1/4-28UNF	1/8	1,0	25,7	15,2	0,37
CES 208-24	–	6,5	5/16-24UNF	5/32	1,5	29,6	18,2	0,68
CEX 208-24	5	6,5	5/16-24UNF	5/32	1,5	29,6	18,2	0,83
CUC 208-24	5	8	5/16-24UNF	5/32	1,1	29,6	18,2	0,68
CUS 208-24	–	8	5/16-24UNF	5/32	1,0	29,6	18,2	0,60
CES 209-26	–	6,5	5/16-24UNF	5/32	1,5	31,85	20,8	0,82
CEX 209-26	5,1	6,5	5/16-24UNF	5/32	1,5	31,85	20,8	0,96
CUC 209-26	5,1	8	5/16-24UNF	5/32	1,1	31,85	20,8	0,78
CUS 209-26	–	8	5/16-24UNF	5/32	1,5	31,85	20,8	0,75
CES 209-27	–	6,5	5/16-24UNF	5/32	1,5	31,85	20,8	0,76
CEX 209-27	5,1	6,5	5/16-24UNF	5/32	1,5	31,85	20,8	0,91
CUC 209-27	5,1	8	5/16-24UNF	5/32	1,1	31,85	20,8	0,74
CUS 209-27	–	8	5/16-24UNF	5/32	1,5	31,85	20,8	0,72
CES 209-28	–	6,5	5/16-24UNF	5/32	1,5	31,85	20,8	0,73
CEX 209-28	5,1	6,5	5/16-24UNF	5/32	1,5	31,85	20,8	0,87
CUC 209-28	5,1	8	5/16-24UNF	5/32	1,1	31,85	20,8	0,70
CUS 209-28	–	8	5/16-24UNF	5/32	1,5	31,85	20,8	0,67
CES 210-30	–	6,5	5/16-24UNF	5/32	1,5	35,1	23,2	0,85
CEX 210-30	5,6	6,5	5/16-24UNF	5/32	1,5	35,1	23,2	1,10
CUC 210-30	5,6	9	3/8-24UNF	3/16	1,1	35,1	23,2	0,80
CUS 210-30	–	9	5/16-24UNF	5/32	1,5	35,1	23,2	0,80
CES 210-31	–	6,5	5/16-24UNF	5/32	1,5	35,1	23,2	0,83
CEX 210-31	5,6	6,5	5/16-24UNF	5/32	1,5	35,1	23,2	1,04
CUC 210-31	5,6	9	3/8-24UNF	3/17	1,1	35,1	23,2	0,82
CUS 210-31	–	9	5/16-24UNF	5/32	1,5	35,1	23,2	0,78

\* Hex set-screw