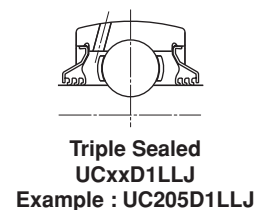
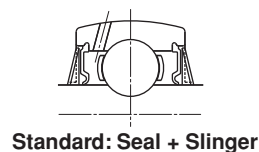
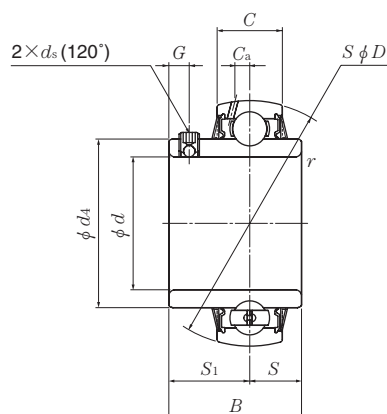


### Ball bearings Set screw type

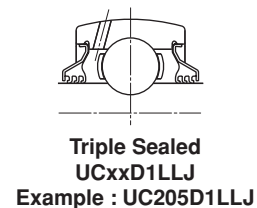
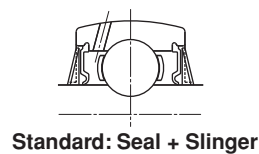
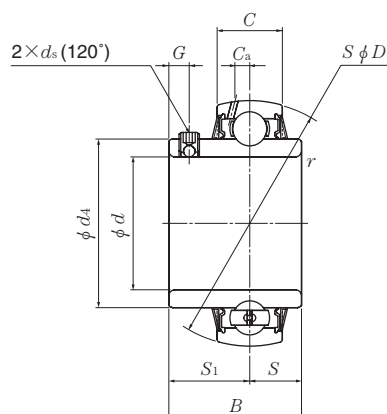


Shaft dia. mm inch	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
12 1/2	UC201D1	12	47	31	17	0.6	12.7	18.3	4.5	M5×0.8	29.6	3.8
	UC201-008D1	0.5000	1.8504	1.2205	0.6693	0.024	0.500	0.720	0.177	No.10-32UNF	1.1654	0.150
15 9/16 5/8	UC202D1	15	47	31	17	0.6	12.7	18.3	4.5	M5×0.8	29.6	3.8
	UC202-009D1	0.5625	1.8504	1.2205	0.6693	0.024	0.500	0.720	0.177	No.10-32UNF	1.1654	0.150
	UC202-010D1	0.6250										
17 1 1/16	UC203D1	17	47	31	17	0.6	12.7	18.3	4.5	M5×0.8	29.6	3.8
	UC203-011D1	0.6875	1.8504	1.2205	0.6693	0.024	0.500	0.720	0.177	No.10-32UNF	1.1654	0.150
20 3/4	UC204D1	20	47	31	17	1	12.7	18.3	4.5	M5×0.8	29.6	3.8
	UC204-012D1	0.7500	1.8504	1.2205	0.6693	0.039	0.500	0.720	0.177	No.10-32UNF	1.1654	0.150
25 1 3/16 7/8 1 5/16 1	UC205D1	25	52	34.1	17	1	14.3	19.8	5	M5×0.8	33.9	4
	UC205-013D1	0.8125										
	UC205-014D1	0.8750	2.0472	1.3425	0.6693	0.039	0.563	0.780	0.197	No.10-32UNF	1.3346	0.157
	UC205-015D1	0.9375										
UC205-100D1	1.0000											
30 1 1/16 1 1/8 1 3/16 1 1/4	UC206D1	30	62	38.1	19	1	15.9	22.2	5	M6×0.75	40.8	4.9
	UC206-101D1	1.0625										
	UC206-102D1	1.1250	2.4409	1.5000	0.7480	0.039	0.626	0.874	0.197	1/4-28UNF	1.6063	0.193
	UC206-103D1	1.1875										
UC206-104D1	1.2500											
35 1 1/4 1 5/16 1 3/8 1 7/16	UC207D1	35	72	42.9	20	1.5	17.5	25.4	6	M6×0.75	46.8	5.4
	UC207-104D1	1.2500										
	UC207-105D1	1.3125	2.8346	1.6890	0.7874	0.059	0.689	1.000	0.236	1/4-28UNF	1.8425	0.213
	UC207-106D1	1.3750										
UC207-107D1	1.4375											
40 1 1/2 1 9/16	UC208D1	40	80	49.2	21	1.5	19	30.2	8	M8×1	53	6
	UC208-108D1	1.5000	3.1496	1.9370	0.8268	0.059	0.748	1.189	0.315	5/16-24UNF	2.0866	0.236
	UC208-109D1	1.5625										
45 1 5/8 1 11/16 1 3/4	UC209D1	45	85	49.2	22	1.5	19	30.2	8	M8×1	57.5	6.1
	UC209-110D1	1.6250										
	UC209-111D1	1.6875	3.3465	1.9370	0.8661	0.059	0.748	1.189	0.315	5/16-24UNF	2.2638	0.240
	UC209-112D1	1.7500										

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
12 800	6 650	13.2	0.21
2 890	1 500		0.46
12 800	6 650	13.2	0.20
2 890	1 500		0.44 0.42
12 800	6 650	13.2	0.18
2 890	1 500		0.39
12 800	6 650	13.2	0.17
2 890	1 500		0.39
14 000	7 850	13.9	0.20
3 150	1 770		0.53 0.51 0.46 0.44
19 500	11 300	13.8	0.32
4 400	2 540		0.82 0.77 0.73 0.66
25 700	15 300	13.8	0.46
5 750	3 450		1.21 1.15 1.08 1.01
29 100	17 800	14.0	0.64
6 550	4 000		1.52 1.46
32 500	20 400	14.1	0.68
7 350	4 600		1.76 1.68 1.57

### Ball bearings Set screw type

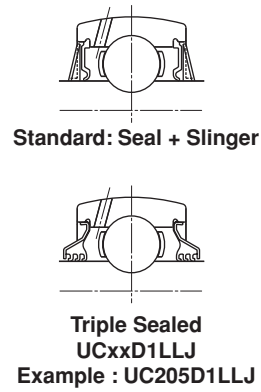
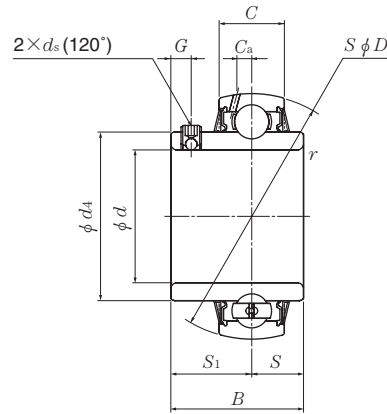


Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
<b>50</b>	<b>UC210D1</b>	<b>50</b>	<b>90</b>	<b>51.6</b>	<b>24</b>	<b>1.5</b>	<b>19</b>	<b>32.6</b>	<b>9</b>	<b>M8×1</b>	<b>62.4</b>	<b>6.1</b>
<b>1<sup>13</sup>/<sub>16</sub></b>	<b>UC210-113D1</b>	1.8125										
<b>1<sup>7</sup>/<sub>8</sub></b>	<b>UC210-114D1</b>	1.8750	3.5433	2.0315	0.9449	0.059	0.748	1.283	0.354	<b>5<sup>16</sup>/<sub>16</sub>-24UNF</b>	2.4567	0.240
<b>1<sup>15</sup>/<sub>16</sub></b>	<b>UC210-115D1</b>	1.9375										
<b>2</b>	<b>UC210-200D1</b>	2.0000										
<b>55</b>	<b>UC211D1</b>	<b>55</b>	<b>100</b>	<b>55.6</b>	<b>25</b>	<b>2</b>	<b>22.2</b>	<b>33.4</b>	<b>9</b>	<b>M8×1</b>	<b>69</b>	<b>6.5</b>
<b>2</b>	<b>UC211-200D1</b>	2.0000										
<b>2<sup>1</sup>/<sub>16</sub></b>	<b>UC211-201D1</b>	2.0625	3.9370	2.1890	0.9843	0.079	0.874	1.315	0.354	<b>5<sup>16</sup>/<sub>16</sub>-24UNF</b>	2.7165	0.256
<b>2<sup>1</sup>/<sub>8</sub></b>	<b>UC211-202D1</b>	2.1250										
<b>2<sup>3</sup>/<sub>16</sub></b>	<b>UC211-203D1</b>	2.1875										
<b>60</b>	<b>UC212D1</b>	<b>60</b>	<b>110</b>	<b>65.1</b>	<b>27</b>	<b>2</b>	<b>25.4</b>	<b>39.7</b>	<b>10</b>	<b>M10×1.25</b>	<b>77</b>	<b>7.3</b>
<b>2<sup>1</sup>/<sub>4</sub></b>	<b>UC212-204D1</b>	2.2500										
<b>2<sup>5</sup>/<sub>16</sub></b>	<b>UC212-205D1</b>	2.3125	4.3307	2.5630	1.0630	0.079	1.000	1.563	0.394	<b>3<sup>8</sup>/<sub>8</sub>-24UNF</b>	3.0315	0.287
<b>2<sup>3</sup>/<sub>8</sub></b>	<b>UC212-206D1</b>	2.3750										
<b>2<sup>7</sup>/<sub>16</sub></b>	<b>UC212-207D1</b>	2.4375										
<b>65</b>	<b>UC213D1</b>	<b>65</b>	<b>120</b>	<b>65.1</b>	<b>32</b>	<b>2</b>	<b>25.4</b>	<b>39.7</b>	<b>10</b>	<b>M10×1.25</b>	<b>82.5</b>	<b>7.3</b>
<b>2<sup>1</sup>/<sub>2</sub></b>	<b>UC213-208D1</b>	2.5000	4.7244	2.5630	1.2598	0.079	1.000	1.563	0.394	<b>3<sup>8</sup>/<sub>8</sub>-24UNF</b>	3.2480	0.287
<b>2<sup>9</sup>/<sub>16</sub></b>	<b>UC213-209D1</b>	2.5625										
<b>70</b>	<b>UC214D1</b>	<b>70</b>	<b>125</b>	<b>74.6</b>	<b>33</b>	<b>2</b>	<b>30.2</b>	<b>44.4</b>	<b>12</b>	<b>M10×1.25</b>	<b>87</b>	<b>7.7</b>
<b>2<sup>5</sup>/<sub>8</sub></b>	<b>UC214-210D1</b>	2.6250										
<b>2<sup>11</sup>/<sub>16</sub></b>	<b>UC214-211D1</b>	2.6875	4.9213	2.9370	1.2992	0.079	1.189	1.748	0.472	<b>3<sup>8</sup>/<sub>8</sub>-24UNF</b>	3.4252	0.303
<b>2<sup>3</sup>/<sub>4</sub></b>	<b>UC214-212D1</b>	2.7500										
<b>75</b>	<b>UC215D1</b>	<b>75</b>	<b>130</b>	<b>77.8</b>	<b>34</b>	<b>2</b>	<b>33.3</b>	<b>44.5</b>	<b>12</b>	<b>M10×1.25</b>	<b>93</b>	<b>8</b>
<b>2<sup>13</sup>/<sub>16</sub></b>	<b>UC215-213D1</b>	2.8125										
<b>2<sup>7</sup>/<sub>8</sub></b>	<b>UC215-214D1</b>	2.8750	5.1181	3.0630	1.3386	0.079	1.311	1.752	0.472	<b>3<sup>8</sup>/<sub>8</sub>-24UNF</b>	3.6614	0.315
<b>2<sup>15</sup>/<sub>16</sub></b>	<b>UC215-215D1</b>	2.9375										
<b>3</b>	<b>UC215-300D1</b>	3.0000										
<b>80</b>	<b>UC216D1</b>	<b>80</b>	<b>140</b>	<b>82.6</b>	<b>35</b>	<b>2.5</b>	<b>33.3</b>	<b>49.3</b>	<b>12</b>	<b>M10×1.25</b>	<b>98.1</b>	<b>8</b>
<b>3<sup>1</sup>/<sub>16</sub></b>	<b>UC216-301D1</b>	3.0625										
<b>3<sup>1</sup>/<sub>8</sub></b>	<b>UC216-302D1</b>	3.1250	5.5118	3.2520	1.3780	0.098	1.311	1.941	0.472	<b>3<sup>8</sup>/<sub>8</sub>-24UNF</b>	3.8622	0.315
<b>3<sup>3</sup>/<sub>16</sub></b>	<b>UC216-303D1</b>	3.1875										

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb	
35 000	23 200	14.4	0.78 2.03	
7 900	5 200		1.92 1.81 1.69	
43 500	29 200		14.3	1.04 2.71
9 750	6 550	2.60 2.46 2.34		
52 500	36 000	14.3		1.46 3.66
11 800	8 150		3.50 3.33 3.17	
57 500	40 000		14.4	1.86 4.26
12 900	9 000	4.09		
62 000	44 000	14.5		2.10 5.09
14 000	9 900		4.87 4.65	
66 000	49 500		14.7	2.34 5.73
14 900	11 100	5.49 5.25 4.98		
72 500	53 000	14.6		2.78 6.57
16 300	11 900			6.28 6.00

**Ball bearings  
Set screw type**

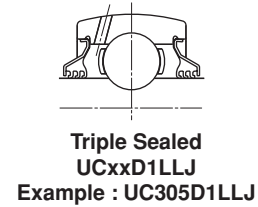
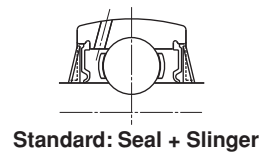
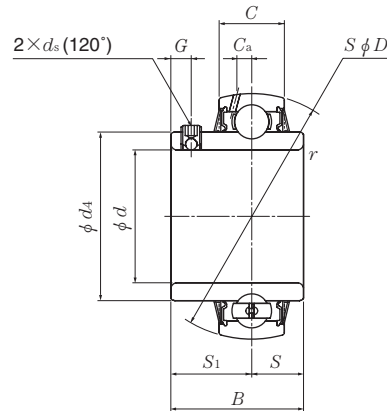


Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
<b>85</b>	<b>UC217D1</b>	<b>85</b>	<b>150</b>	<b>85.7</b>	<b>36</b>	<b>2.5</b>	<b>34.1</b>	<b>51.6</b>	<b>12</b>	<b>M12×1.5</b>	<b>106.4</b>	<b>7.9</b>
<b>3¼</b>	<b>UC217-304D1</b>	3.2500										
<b>3⅝</b>	<b>UC217-305D1</b>	3.3125	5.9055	3.3740	1.4173	0.098	1.343	2.031	0.472	½-20UNF	4.1890	0.311
<b>3⅞</b>	<b>UC217-307D1</b>	3.4375										
<b>90</b>	<b>UC218D1</b>	<b>90</b>	<b>160</b>	<b>96</b>	<b>37</b>	<b>2.5</b>	<b>39.7</b>	<b>56.3</b>	<b>12</b>	<b>M12×1.5</b>	<b>111.6</b>	<b>8.7</b>
<b>3½</b>	<b>UC218-308D1</b>	3.5000	6.2992	3.7795	1.4570	0.098	1.563	2.217	0.472	½-20UNF	4.3937	0.343

Remarks: 1) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>1)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
83 500	64 000	14.7	3.54	7.92
18 700	14 300		7.60	6.97
96 000	71 500		4.40	9.88
21 600	16 100	14.5		

### Ball bearings Set screw type



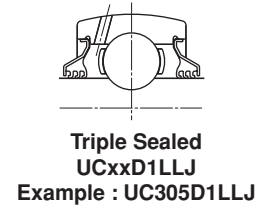
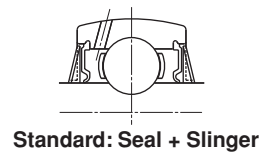
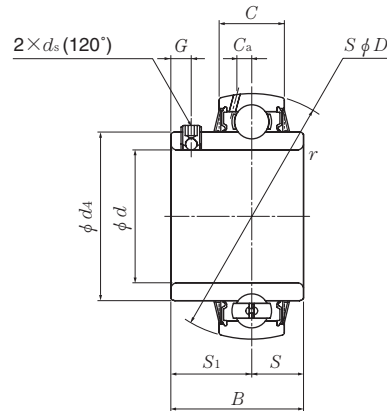
Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
<b>25</b>	<b>UC305D1</b>	<b>25</b>	<b>62</b>	<b>38</b>	<b>20</b>	<b>1.5</b>	<b>15</b>	<b>23</b>	<b>6</b>	<b>M6×0.75</b>	<b>36.8</b>	<b>5.0</b>
$\frac{13}{16}$	<b>UC305-013D1</b>	0.8125										
$\frac{7}{8}$	<b>UC305-014D1</b>	0.8750	2.4409	1.4961	0.7874	0.059	0.591	0.906	0.236	$\frac{1}{4}$ -28UNF	1.4488	0.197
$\frac{15}{16}$	<b>UC305-015D1</b>	0.9375										
<b>1</b>	<b>UC305-100D1</b>	1.0000										
<b>30</b>	<b>UC306D1</b>	<b>30</b>	<b>72</b>	<b>43</b>	<b>23</b>	<b>1.5</b>	<b>17</b>	<b>26</b>	<b>6</b>	<b>M6×0.75</b>	<b>44.9</b>	<b>5.6</b>
$\frac{1}{16}$	<b>UC306-101D1</b>	1.0625										
$\frac{1}{8}$	<b>UC306-102D1</b>	1.1250	2.8346	1.6929	0.9055	0.059	0.669	1.024	0.236	$\frac{1}{4}$ -28UNF	1.7677	0.220
$\frac{3}{16}$	<b>UC306-103D1</b>	1.1875										
<b>35</b>	<b>UC307D1</b>	<b>35</b>	<b>80</b>	<b>48</b>	<b>25</b>	<b>2</b>	<b>19</b>	<b>29</b>	<b>8</b>	<b>M8×1</b>	<b>49.4</b>	<b>5.7</b>
$\frac{1}{4}$	<b>UC307-104D1</b>	1.2500										
$\frac{5}{16}$	<b>UC307-105D1</b>	1.3125	3.1496	1.8898	0.9843	0.079	0.748	1.142	0.315	$\frac{5}{16}$ -24UNF	1.9449	0.224
$\frac{3}{8}$	<b>UC307-106D1</b>	1.3750										
$\frac{7}{16}$	<b>UC307-107D1</b>	1.4375										
<b>40</b>	<b>UC308D1</b>	<b>40</b>	<b>90</b>	<b>52</b>	<b>27</b>	<b>2</b>	<b>19</b>	<b>33</b>	<b>10</b>	<b>M10×1.25</b>	<b>56</b>	<b>6.1</b>
$\frac{1}{2}$	<b>UC308-108D1</b>	1.5000	3.5433	2.0472	1.0630	0.079	0.748	1.299	0.394	$\frac{3}{8}$ -24UNF	2.2047	0.240
$\frac{9}{16}$	<b>UC308-109D1</b>	1.5625										
<b>45</b>	<b>UC309D1</b>	<b>45</b>	<b>100</b>	<b>57</b>	<b>29</b>	<b>2</b>	<b>22</b>	<b>35</b>	<b>10</b>	<b>M10×1.25</b>	<b>63.5</b>	<b>7.1</b>
$\frac{5}{8}$	<b>UC309-110D1</b>	1.6250										
$\frac{11}{16}$	<b>UC309-111D1</b>	1.6875	3.9370	2.2441	1.1417	0.079	0.866	1.378	0.394	$\frac{3}{8}$ -24UNF	2.5000	0.280
$\frac{3}{4}$	<b>UC309-112D1</b>	1.7500										
<b>50</b>	<b>UC310D1</b>	<b>50</b>	<b>110</b>	<b>61</b>	<b>32</b>	<b>2.5</b>	<b>22</b>	<b>39</b>	<b>12</b>	<b>M12×1.5</b>	<b>70.6</b>	<b>7.9</b>
$\frac{13}{16}$	<b>UC310-113D1</b>	1.8125										
$\frac{1}{8}$	<b>UC310-114D1</b>	1.8750	4.3307	2.4016	1.2598	0.098	0.866	1.535	0.472	$\frac{1}{2}$ -20UNF	2.7795	0.311
$\frac{15}{16}$	<b>UC310-115D1</b>	1.9375										
<b>55</b>	<b>UC311D1</b>	<b>55</b>	<b>120</b>	<b>66</b>	<b>34</b>	<b>2.5</b>	<b>25</b>	<b>41</b>	<b>12</b>	<b>M12×1.5</b>	<b>76.6</b>	<b>8.5</b>
<b>2</b>	<b>UC311-200D1</b>	2.0000										
$\frac{2}{16}$	<b>UC311-201D1</b>	2.0625	4.7244	2.5984	1.3386	0.098	0.984	1.614	0.472	$\frac{1}{2}$ -20UNF	3.0157	0.335
$\frac{2}{8}$	<b>UC311-202D1</b>	2.1250										
$\frac{23}{16}$	<b>UC311-203D1</b>	2.1875										

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>1)</sup>  $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
21 200	10 900	12.6	0.35	0.88
4 750	2 460		0.84	0.79
			0.79	0.77
			0.77	
26 700	15 000	13.3	0.56	1.34
6 000	3 400		1.28	1.23
			1.23	
33 500	19 100	13.1	0.70	1.70
7 500	4 300		1.63	1.57
			1.57	1.50
			1.50	
40 500	24 000	13.2	0.96	2.23
9 150	5 400		2.23	2.14
			2.14	
53 000	32 000	13.1	1.28	3.06
11 900	7 200		3.06	2.98
			2.98	2.87
			2.87	
62 000	38 500	13.2	1.68	3.95
13 900	8 600		3.84	3.70
			3.70	
71 500	45 000	13.2	2.08	4.96
16 100	10 100		4.96	4.81
			4.81	4.67
			4.67	4.50



## Ball bearings Set screw type

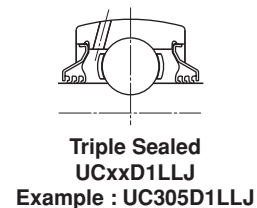
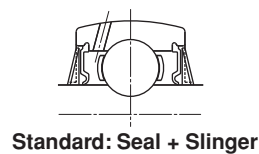
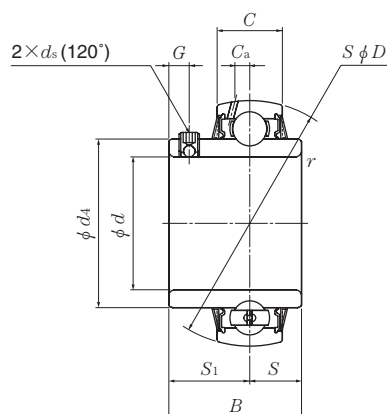


Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
<b>60</b>	<b>UC312D1</b>	60	130	71	36	2.5	26	45	12	M12×1.5	82.7	9.0
$2\frac{1}{4}$	<b>UC312-204D1</b>	2.2500										
$2\frac{5}{16}$	<b>UC312-205D1</b>	2.3125	5.1181	2.7953	1.4173	0.098	1.024	1.772	0.472	$\frac{1}{2}$ -20UNF	3.2559	0.354
$2\frac{3}{8}$	<b>UC312-206D1</b>	2.3750										
$2\frac{7}{16}$	<b>UC312-207D1</b>	2.4375										
<b>65</b>	<b>UC313D1</b>	65	140	75	39	2.5	30	45	12	M12×1.5	88.2	9.4
$2\frac{1}{2}$	<b>UC313-208D1</b>	2.5000	5.5118	2.9528	1.5354	0.098	1.181	1.772	0.472	$\frac{1}{2}$ -20UNF	3.4724	0.370
$2\frac{9}{16}$	<b>UC313-209D1</b>	2.5625										
<b>70</b>	<b>UC314D1</b>	70	150	78	41	2.5	33	45	12	M12×1.5	94.8	10
$2\frac{5}{8}$	<b>UC314-210D1</b>	2.6250										
$2\frac{11}{16}$	<b>UC314-211D1</b>	2.6875	5.9055	3.0709	1.6142	0.098	1.299	1.772	0.472	$\frac{1}{2}$ -20UNF	3.7323	0.394
$2\frac{3}{4}$	<b>UC314-212D1</b>	2.7500										
<b>75</b>	<b>UC315D1</b>	75	160	82	43	2.5	32	50	14	M14×1.5	101.3	10.5
$2\frac{13}{16}$	<b>UC315-213D1</b>	2.8125										
$2\frac{7}{8}$	<b>UC315-214D1</b>	2.8750	6.2992	3.2283	1.6929	0.098	1.260	1.969	0.551	$\frac{9}{16}$ -18UNF	3.9882	0.413
$2\frac{15}{16}$	<b>UC315-215D1</b>	2.9375										
<b>3</b>	<b>UC315-300D1</b>	3.0000										
<b>80</b>	<b>UC316D1</b>	80	170	86	45	2.5	34	52	14	M14×1.5	107.9	11.1
$3\frac{1}{16}$	<b>UC316-301D1</b>	3.0625										
$3\frac{1}{8}$	<b>UC316-302D1</b>	3.1250	6.6929	3.3858	1.7717	0.098	1.339	2.047	0.551	$\frac{9}{16}$ -18UNF	4.2480	0.437
$3\frac{3}{16}$	<b>UC316-303D1</b>	3.1875										
<b>85</b>	<b>UC317D1</b>	85	180	96	47	3	40	56	16	M16×1.5	114.4	11.5
$3\frac{1}{4}$	<b>UC317-304D1</b>	3.2500										
$3\frac{5}{16}$	<b>UC317-305D1</b>	3.3125	7.0866	3.7795	1.8504	0.118	1.575	2.205	0.630	$\frac{5}{8}$ -18UNF	4.5039	0.453
$3\frac{7}{16}$	<b>UC317-307D1</b>	3.4375										
<b>90</b>	<b>UC318D1</b>	90	190	96	49	3	40	56	16	M16×1.5	120.9	12.2
$3\frac{7}{16}$	<b>UC318-307D1</b>	3.4375	7.4803	3.7795	1.9291	0.118	1.575	2.205	0.630	$\frac{5}{8}$ -18UNF	4.7598	0.480
$3\frac{1}{2}$	<b>UC318-308D1</b>	3.5000										

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
82 000	52 000	13.2	2.60
			6.06
18 400	11 700		5.89
			5.68
			5.51
92 500	60 000	13.2	3.25
			7.36
20 800	13 400		7.14
104 000	68 000	13.2	3.86
			9.06
23 400	15 300		8.82
			8.60
113 000	77 000	13.2	4.70
			11.0
25 500	17 400		10.7
			10.5
			10.2
123 000	86 500	13.3	5.60
			12.6
27 600	19 500		12.3
			12.1
133 000	97 000	13.3	6.70
			15.2
29 800	21 800		14.9
			14.2
143 000	107 000	13.3	7.60
			17.3
32 000	24 100		16.9

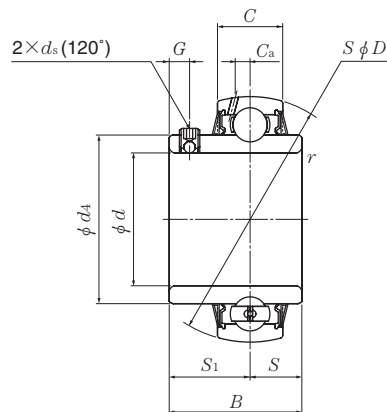
## Ball bearings Set screw type



Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
<b>95</b>	<b>UC319D1</b>	95	200	103	51	3	41	62	16	M16×1.5	127.5	12.7
<b>3<sup>5</sup>/<sub>8</sub></b>	<b>UC319-310D1</b>	3.6250										
<b>3<sup>11</sup>/<sub>16</sub></b>	<b>UC319-311D1</b>	3.6875	7.8740	4.0551	2.0079	0.118	1.614	2.441	0.630	5/8-18UNF	5.0197	0.5
<b>3<sup>3</sup>/<sub>4</sub></b>	<b>UC319-312D1</b>	3.7500										
<b>100</b>	<b>UC320D1</b>	100	215	108	55	3	42	66	18	M18×1.5	135.6	14
<b>3<sup>13</sup>/<sub>16</sub></b>	<b>UC320-313D1</b>	3.8125										
<b>3<sup>7</sup>/<sub>8</sub></b>	<b>UC320-314D1</b>	3.8750	8.4646	4.2520	2.1654	0.118	1.654	2.598	0.709	5/8-18UNF	5.3386	0.551
<b>3<sup>15</sup>/<sub>16</sub></b>	<b>UC320-315D1</b>	3.9375										
<b>4</b>	<b>UC320-400D1</b>	4.0000										
<b>105</b>	<b>UC321D1</b>	105	225	112	57	3	44	68	18	M18×1.5	142.1	14.6
<b>110</b>	<b>UC322D1</b>	110	240	117	59	3	46	71	18	M18×1.5	151.7	15.6
<b>120</b>	<b>UC324D1</b>	120	260	126	63	3	51	75	18	M18×1.5	165.2	15.5
<b>130</b>	<b>UC326D1</b>	130	280	135	67	4	54	81	20	M20×1.5	178.3	16.6
<b>140</b>	<b>UC328D1</b>	140	300	145	71	4	59	86	20	M20×1.5	190.4	17.8

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
153 000	119 000	13.3	8.70
34 500	26 600		19.9
			19.5
			19.1
173 000	141 000	13.2	10.8
			24.7
39 000	31 500		24.2
			23.8
			23.4
184 000	153 000	13.2	12.2
205 000	179 000	13.1	14.3
207 000	185 000	13.5	18.5
229 000	214 000	13.6	23.0
253 000	246 000	13.6	28.5

**Ball bearings**  
**Set screw type**


Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>d<sub>4</sub></i>	<i>C<sub>a</sub></i>
<b>25</b>	<b>UCX05D1</b>	<b>25</b>	<b>62</b>	<b>38.1</b>	<b>19</b>	<b>1</b>	<b>15.9</b>	<b>22.2</b>	<b>5</b>	<b>M6×0.75</b>	<b>40.8</b>	<b>4.9</b>
$1\frac{3}{16}$	<b>UCX05-013D1</b>	0.8125										
$\frac{7}{8}$	<b>UCX05-014D1</b>	0.8750	2.4409	1.5000	0.7480	0.039	0.626	0.874	0.197	$\frac{1}{4}$ -28UNF	1.6063	0.193
$1\frac{5}{16}$	<b>UCX05-015D1</b>	0.9375										
<b>1</b>	<b>UCX05-100D1</b>	1.0000										
<b>30</b>	<b>UCX06D1</b>	<b>30</b>	<b>72</b>	<b>42.9</b>	<b>20</b>	<b>1</b>	<b>17.5</b>	<b>25.4</b>	<b>6</b>	<b>M8×1</b>	<b>46.8</b>	<b>5.4</b>
$1\frac{1}{16}$	<b>UCX06-101D1</b>	1.0625										
$1\frac{1}{8}$	<b>UCX06-102D1</b>	1.1250	2.8346	1.6890	0.7874	0.039	0.689	1.000	0.236	$\frac{5}{16}$ -24UNF	1.8425	0.213
$1\frac{3}{16}$	<b>UCX06-103D1</b>	1.1875										
<b>35</b>	<b>UCX07D1</b>	<b>35</b>	<b>80</b>	<b>49.2</b>	<b>21</b>	<b>1.5</b>	<b>19</b>	<b>30.2</b>	<b>8</b>	<b>M8×1</b>	<b>53</b>	<b>6</b>
$1\frac{5}{16}$	<b>UCX07-105D1</b>	1.3125										
$1\frac{3}{8}$	<b>UCX07-106D1</b>	1.3750	3.1496	1.9370	0.8268	0.059	0.748	1.189	0.315	$\frac{5}{16}$ -24UNF	2.0866	0.236
$1\frac{7}{16}$	<b>UCX07-107D1</b>	1.4375										
<b>40</b>	<b>UCX08D1</b>	<b>40</b>	<b>85</b>	<b>49.2</b>	<b>22</b>	<b>1.5</b>	<b>19</b>	<b>30.2</b>	<b>8</b>	<b>M8×1</b>	<b>57.5</b>	<b>6.1</b>
$1\frac{1}{2}$	<b>UCX08-108D1</b>	1.5000										
$1\frac{9}{16}$	<b>UCX08-109D1</b>	1.5625	3.3465	1.9370	0.8661	0.059	0.748	1.189	0.315	$\frac{5}{16}$ -24UNF	2.2638	0.240
<b>45</b>	<b>UCX09D1</b>	<b>45</b>	<b>90</b>	<b>51.6</b>	<b>24</b>	<b>1.5</b>	<b>19</b>	<b>32.6</b>	<b>9</b>	<b>M10×1.25</b>	<b>62.4</b>	<b>6.1</b>
$1\frac{5}{8}$	<b>UCX09-110D1</b>	1.6250										
$1\frac{11}{16}$	<b>UCX09-111D1</b>	1.6875	3.5433	2.0315	0.9449	0.059	0.748	1.283	0.354	$\frac{3}{8}$ -24UNF	2.4567	0.240
$1\frac{3}{4}$	<b>UCX09-112D1</b>	1.7500										
<b>50</b>	<b>UCX10D1</b>	<b>50</b>	<b>100</b>	<b>55.6</b>	<b>25</b>	<b>1.5</b>	<b>22.2</b>	<b>33.4</b>	<b>9</b>	<b>M10×1.25</b>	<b>69</b>	<b>6.5</b>
$1\frac{7}{8}$	<b>UCX10-114D1</b>	1.8750										
$1\frac{15}{16}$	<b>UCX10-115D1</b>	1.9375	3.9370	2.1890	0.9843	0.059	0.874	1.315	0.354	$\frac{3}{8}$ -24UNF	2.7165	0.256
<b>55</b>	<b>UCX11D1</b>	<b>55</b>	<b>110</b>	<b>65.1</b>	<b>27</b>	<b>2</b>	<b>25.4</b>	<b>39.7</b>	<b>10</b>	<b>M10×1.25</b>	<b>77</b>	<b>7.3</b>
$2\frac{1}{16}$	<b>UCX11-201D1</b>	2.0625										
$2\frac{1}{8}$	<b>UCX11-202D1</b>	2.1250	4.3307	2.5630	1.0630	0.079	1.000	1.563	0.394	$\frac{3}{8}$ -24UNF	3.0315	0.287
$2\frac{3}{16}$	<b>UCX11-203D1</b>	2.1875										
<b>60</b>	<b>UCX12D1</b>	<b>60</b>	<b>120</b>	<b>65.1</b>	<b>32</b>	<b>2</b>	<b>25.4</b>	<b>39.7</b>	<b>10</b>	<b>M10×1.25</b>	<b>82.5</b>	<b>7.3</b>
$2\frac{3}{8}$	<b>UCX12-206D1</b>	2.3750										
$2\frac{1}{2}$	<b>UCX12-207D1</b>	2.4375	4.7244	2.5630	1.2598	0.079	1.000	1.563	0.394	$\frac{3}{8}$ -24UNF	3.2480	0.287

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

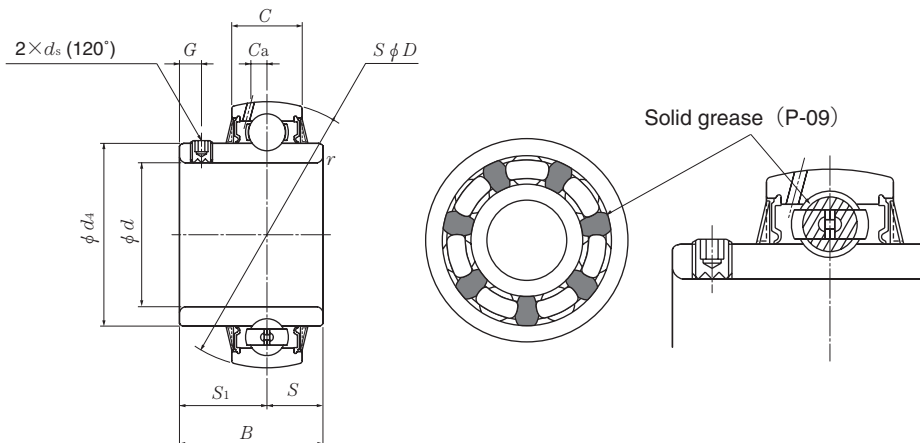
Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
19 500	11 300	13.8	0.39
			0.97
4 400	2 540		0.93
			0.88
			0.84
25 700	15 300	13.8	0.68
			1.61
5 750	3 450		1.54
			1.50
29 100	17 800	14.0	0.74
			1.87
6 550	4 000		1.81
			1.74
32 500	20 400	14.1	0.80
			2.16
7 350	4 600		2.07
35 000	23 200	14.4	0.94
			2.43
7 900	5 200		2.34
			2.25
43 500	29 200	14.3	1.22
			3.15
9 750	6 550		3.04
52 500	36 000	14.3	1.72
			4.43
11 800	8 150		4.30
			4.12
57 500	40 000	14.4	2.10
			4.96
12 900	9 000		4.81



Basic load ratings		Factor <sup>1)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
62 000	44 000	14.5	2.45	5.60
14 000	9 900		5.38	
66 000	49 500	14.7	2.47	5.93
14 900	11 100		5.69	5.47
72 500	53 000	14.6	3.11	7.43
16 300	11 900		7.19	6.92
			6.66	
83 500	64 000	14.7	3.96	8.75
18 700	14 300		8.47	8.18
96 000	71 500	14.5	4.72	10.8
21 600	16 100		10.1	
109 000	82 000	14.4	5.50	13.3
24 500	18 400		12.4	
133 000	105 000	14.4	8.06	18.8
29 900	23 500		18.4	19.7
			19.2	



**Stainless ball bearing with solid grease**  
**Set screw type**

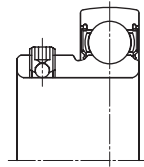
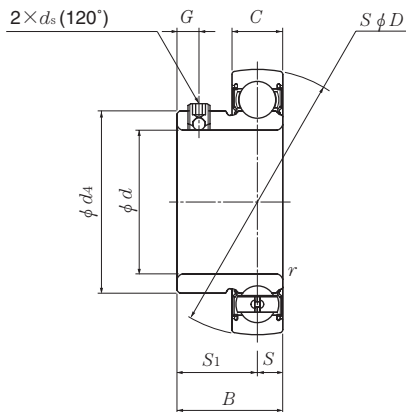


Shaft dia. mm	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> min.	mm <i>S</i>	<i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>C<sub>a</sub></i>	<i>d<sub>4</sub></i>
20	F-UC204D1/LP09	20	47	31	17	1	12.7	18.3	4.5	M5×0.8	3.8	29.6
25	F-UC205D1/LP09	25	52	34.1	17	1	14.3	19.8	5	M5×0.8	4	33.9
30	F-UC206D1/LP09	30	62	38.1	19	1	15.9	22.2	5	M6×0.75	4.9	40.8
35	F-UC207D1/LP09	35	72	42.9	20	1.5	17.5	25.4	6	M6×0.75	5.4	46.8
40	F-UC208D1/LP09	40	80	49.2	21	1.5	19	30.2	8	M8×1	6	53
45	F-UC209D1/LP09	45	85	49.2	22	1.5	19	30.2	8	M8×1	6.1	57.5
50	F-UC210D1/LP09	50	90	51.6	24	1.5	19	32.6	9	M8×1	6.1	62.4

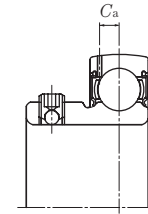
Remarks: 1) The basic dynamic load rating *C<sub>r</sub>* of the bearing is different from a bearing made with standard bearing steel.

Basic load ratings		Factor $f_0$	Mass (approx.) kg
dynamic $C_r$	static $C_{or}$		
9 900	6 650	13.2	0.17
10 800	7 850	13.9	0.20
15 000	11 300	13.8	0.30
19 700	15 300	13.8	0.40
22 400	17 800	14.0	0.60
25 200	20 400	14.1	0.68
27 000	23 200	14.4	0.78

## Ball bearings Set screw type



Maintenance free type : AS2xx  
Example : AS205



Relubricatable : AS2xxD1  
Example : AS205D1

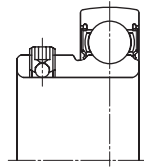
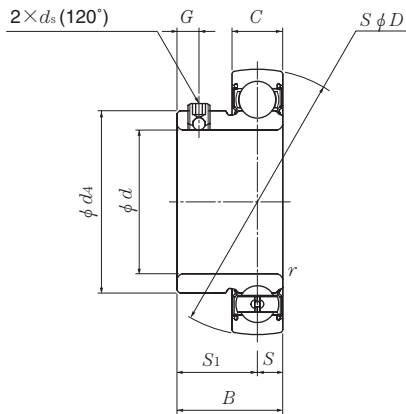
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>Ca</i>	<i>d<sub>4</sub></i>
12 1/2	AS201	12	40	22	12	0.6	6	16	4.2	M5×0.8	3.7	24.3
	AS201-008	0.5000	1.5748	0.8661	0.4724	0.024	0.236	0.630	0.165	No.10-32UNF	0.146	0.957
15 9/16 5/8	AS202	15	40	22	12	0.6	6	16	4.2	M5×0.8	3.7	24.3
	AS202-009	0.5625	1.5748	0.8661	0.4724	0.024	0.236	0.630	0.165	No.10-32UNF	0.146	0.957
	AS202-010	0.6250										
17 11/16	AS203	17	40	22	12	0.6	6	16	4.2	M5×0.8	3.7	24.3
	AS203-011	0.6875	1.5748	0.8661	0.4724	0.024	0.236	0.630	0.165	No.10-32UNF	0.146	0.957
20 3/4	AS204	20	47	25	14	1	7	18	4.2	M5×0.8	4.2	29.6
	AS204-012	0.7500	1.8504	0.9843	0.5512	0.039	0.276	0.709	0.165	No.10-32UNF	0.165	1.165
25 13/16 7/8 15/16 1	AS205	25	52	27	15	1	7.5	19.5	5	M5×0.8	4	33.9
	AS205-013	0.8125										
	AS205-014	0.8750	2.0472	1.0630	0.5906	0.039	0.295	0.768	0.197	No.10-32UNF	0.157	1.335
	AS205-015	0.9375										
	AS205-100	1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	AS206	30	62	29	16	1	8	21	5	M6×0.75	5.1	40.8
	AS206-101	1.0625										
	AS206-102	1.1250	2.4409	1.1417	0.6299	0.039	0.315	0.827	0.197	1/4-28UNF	0.201	1.606
	AS206-103	1.1875										
35 1 1/4 1 5/16 1 3/8 1 7/16	AS207	35	72	34	17	1.5	8.5	25.5	6	M6×0.75	5.6	46.8
	AS207-104	1.2500										
	AS207-105	1.3125	2.8346	1.3386	0.6693	0.059	0.335	1.004	0.236	1/4-28UNF	0.220	1.843
	AS207-106	1.3750										
	AS207-107	1.4375										
40 1 1/2 1 9/16	AS208	40	80	38	18	1.5	9	29	8	M8×1	6.1	53
	AS208-108	1.5000	3.1496	1.4961	0.7087	0.059	0.354	1.142	0.315	5/16-24UNF	0.240	2.087
	AS208-109	1.5625										

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

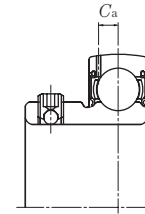
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>2)</sup>  $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
9 600	4 600	12.8	0.10	
2 160	1 030		0.22	
9 600	4 600	12.8	0.09	
2 160	1 030		0.21	0.20
9 600	4 600	12.8	0.08	
2 160	1 030		0.18	
12 800	6 650	13.2	0.13	
2 890	1 500		0.29	
14 000	7 850	13.9	0.16	
			0.42	
3 150	1 770		0.40	
			0.38	0.35
19 500	11 300	13.8	0.25	
			0.61	
4 400	2 540		0.59	
			0.57	0.55
25 700	15 300	13.8	0.38	
			1.06	
5 750	3 450		0.93	
			0.81	0.69
29 100	17 800	14.0	0.51	
			1.15	
6 550	4 000		1.06	

**Ball bearings  
Set screw type**



**Maintenance free type : AS2xx  
Example : AS205**



**Relubricatable : AS2xxD1  
Example : AS205D1**

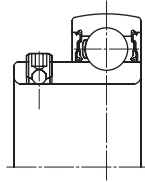
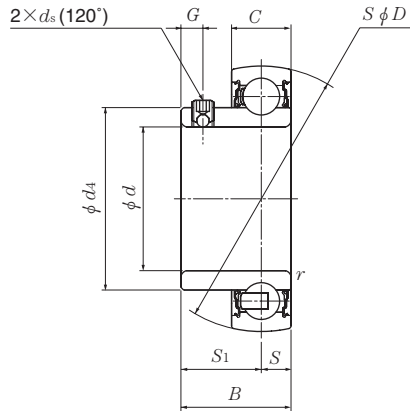
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>Ca</i>	<i>d<sub>4</sub></i>
<b>45</b>	<b>AS209</b>	<b>45</b>	<b>85</b>	<b>40</b>	<b>19</b>	<b>1.5</b>	<b>9.5</b>	<b>30.5</b>	<b>8</b>	<b>M8×1</b>	<b>6.3</b>	<b>57.5</b>
<b>1 5/8</b>	<b>AS209-110</b>	1.6250										
<b>1 11/16</b>	<b>AS209-111</b>	1.6875	3.3465	1.5748	0.7480	0.059	0.374	1.201	0.315	5/16-24UNF	0.248	2.2638
<b>1 3/4</b>	<b>AS209-112</b>	1.7500										
<b>50</b>	<b>AS210</b>	<b>50</b>	<b>90</b>	<b>42</b>	<b>20</b>	<b>1.5</b>	<b>10</b>	<b>32</b>	<b>9</b>	<b>M8X1</b>	<b>6.4</b>	<b>62.4</b>
<b>1 13/16</b>	<b>AS210-113</b>	1.8125										
<b>1 7/8</b>	<b>AS210-114</b>	1.8750	3.5433	1.6535	0.7874	0.059	0.394	1.260	0.354	5/16-24UNF	0.252	2.4567
<b>1 15/16</b>	<b>AS210-115</b>	1.9375										
<b>2</b>	<b>AS210-200</b>	2.0000										

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

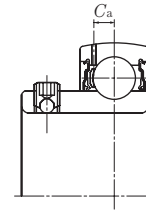
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>2)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
32 500	20 400	14.1	0.55	1.39
7 350	4 600		1.32	1.23
35 000	23 200		0.65	1.65
7 900	5 200	14.4	1.57	1.48
			1.48	1.39
			1.39	

## Ball bearings Set screw type



Maintenance free type : AR2xx  
Example : AR205



Relubricatable : AR2xxD1  
Example : AR205D1

Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r<sub>s</sub></i> mm min.	<i>S</i>	<i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>Ca</i>	<i>d<sub>4</sub></i>
12 1/2	AR201	12	40	22.5	13	0.6	6.5	16	5	M6×0.75	3.9	24.4
	AR201-008	0.5000	1.5748	0.8858	0.5118	0.024	0.256	0.630	0.197	1/4-28UNF	0.154	0.9606
15 9/16 5/8	AR202	15	40	22.5	13	0.6	6.5	16	5	M6×0.75	3.9	24.4
	AR202-009 AR202-010	0.5625 0.6250	1.5748	0.8858	0.5118	0.024	0.256	0.630	0.197	1/4-28UNF	0.154	0.9606
17 1 1/16	AR203	17	40	22.5	13	0.6	6.5	16	5	M6×0.75	3.9	24.4
	AR203-011	0.6875	1.5748	0.8858	0.5118	0.024	0.256	0.630	0.197	1/4-28UNF	0.154	0.9606
20 3/4	AR204	20	47	25.5	15	1	7.5	18	5	M6×0.75	4.3	29.6
	AR204-012	0.7500	1.8504	1.0039	0.5906	0.039	0.295	0.709	0.197	1/4-28UNF	0.169	1.1654
25 13/16 7/8 15/16 1	AR205	25	52	27	15	1	7.5	19.5	5	M6×0.75	4	33.9
	AR205-013	0.8125										
	AR205-014	0.8750	2.0472	1.0630	0.5906	0.039	0.295	0.768	0.197	1/4-28UNF	0.157	1.3346
	AR205-015 AR205-100	0.9375 1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	AR206	30	62	30	18	1	9	21	5	M6×0.75	4.9	40.8
	AR206-101	1.0625										
	AR206-102	1.1250	2.4409	1.1811	0.7087	0.039	0.354	0.827	0.197	1/4-28UNF	0.193	1.6063
	AR206-103 AR206-104	1.1875 1.2500										
35 1 1/4 1 5/16 1 3/8 1 7/16	AR207	35	72	35	19	1.5	9.5	25.5	6	M6×0.75	5.4	46.8
	AR207-104	1.2500										
	AR207-105	1.3125	2.8346	1.3780	0.7480	0.059	0.374	1.004	0.236	1/4-28UNF	0.213	1.8425
	AR207-106 AR207-107	1.3750 1.4375										
40 1 1/2 1 9/16	AR208	40	80	40	22	1.5	11	29	8	M8×1	6.5	53
	AR208-108 AR208-109	1.5000 1.5625	3.1496	1.5748	0.8661	0.059	0.433	1.142	0.315	5/16-24UNF	0.256	2.0866

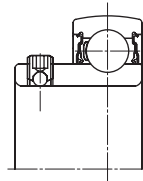
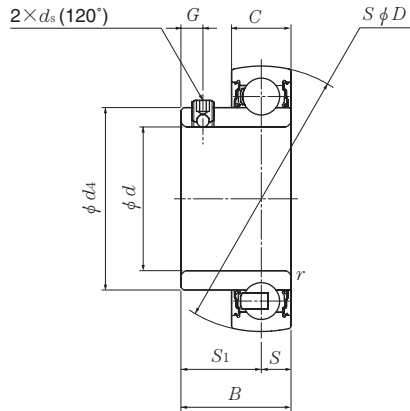
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

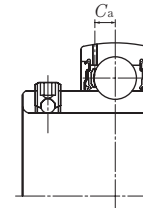
Basic load ratings		Factor <sup>2)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
9 600	4 600	12.8	0.11	
2 160	1 030		0.24	
9 600	4 600	12.8	0.10	
2 160	1 030		0.23	0.22
9 600	4 600	12.8	0.09	
2 160	1 030		0.20	
12 800	6 650	13.2	0.14	
2 890	1 500		0.31	
14 000	7 850	13.9	0.17	
			0.44	
3 150	1 770		0.42	
			0.40	0.37
19 500	11 300	13.8	0.26	
			0.63	
4 400	2 540		0.61	
			0.59	0.57
25 700	15 300	13.8	0.39	
			1.10	
5 750	3 450		0.97	
			0.85	0.73
29 100	17 800	14.0	0.54	
			1.24	
6 550	4 000		1.15	



**Ball bearings  
Set screw type**



Maintenance free type : AR2xx  
Example : AR205



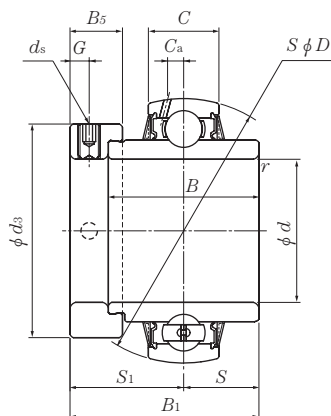
Relubricatable : AR2xxD1  
Example : AR205D1

Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	mm <i>r<sub>s</sub></i> min.	inch <i>S</i>	inch <i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>	<i>Ca</i>	<i>d<sub>4</sub></i>
<b>45</b>	<b>AR209</b>	<b>45</b>	<b>85</b>	<b>41.5</b>	<b>22</b>	<b>1.5</b>	<b>11</b>	<b>30.5</b>	<b>8</b>	<b>M8X1</b>	<b>6.1</b>	<b>57.5</b>
<b>1 5/8</b>	<b>AR209-110</b>	1.6250										
<b>1 11/16</b>	<b>AR209-111</b>	1.6875	3.3465	1.6339	0.8661	0.059	0.433	1.201	0.315	5/16-24UNF	0.240	2.2638
<b>1 3/4</b>	<b>AR209-112</b>	1.7500										
<b>50</b>	<b>AR210</b>	<b>50</b>	<b>90</b>	<b>43</b>	<b>22</b>	<b>1.5</b>	<b>11</b>	<b>32</b>	<b>9</b>	<b>M8X1</b>	<b>6.7</b>	<b>62.4</b>
<b>1 13/16</b>	<b>AR210-113</b>	1.8125										
<b>1 7/8</b>	<b>AR210-114</b>	1.8750	3.5433	1.6929	0.8661	0.059	0.433	1.260	0.354	5/16-24UNF	0.264	2.4567
<b>1 15/16</b>	<b>AR210-115</b>	1.9375										
<b>2</b>	<b>AR210-200</b>	2.0000										

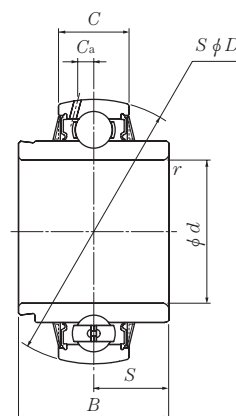
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".  
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>2)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
32 500	20 400	14.1	0.61	1.54
7 350	4 600		1.46	1.39
35 000	23 200		0.70	1.76
7 900	5 200	14.4	1.68	1.59
			1.59	1.50

**Ball bearings  
Eccentric locking collar type**



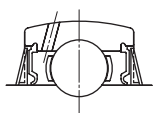
**Eccentric locking collar + bearing  
UELxxxD1W3**



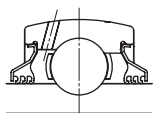
**Eccentric locking collar type  
ULxxxD1**

Shaft dia. mm inch	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	<i>S</i> inch	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>	<i>d</i> <sub>3</sub>
<b>20</b> 3/4	<b>UEL204D1W3</b> <b>UEL204-012D1W3</b>	20 0.7500	47 1.8504	43.7 1.720	34.2 1.3465	17 0.6693	1 0.039	17.1 0.673	26.6 1.047	4.8 0.189	M6×0.75 1/4-28UNF	33 1.299
<b>25</b> 13/16 7/8 15/16 1	<b>UEL205D1W3</b> <b>UEL205-013D1W3</b> <b>UEL205-014D1W3</b> <b>UEL205-015D1W3</b> <b>UEL205-100D1W3</b>	25 0.8125 0.8750 0.9375 1.0000	52 2.0472	44.4 1.748	34.9 1.3740	17 0.6693	1 0.039	17.45 0.687	26.95 1.059	4.8 0.189	M6×0.75 1/4-28UNF	38 1.496
<b>30</b> 1 1/16 1 1/8 1 3/16 1 1/4	<b>UEL206D1W3</b> <b>UEL206-101D1W3</b> <b>UEL206-102D1W3</b> <b>UEL206-103D1W3</b> <b>UEL206-104D1W3</b>	30 1.0625 1.1250 1.1875 1.2500	62 2.4409	48.4 1.906	36.5 1.4370	19 0.7480	1 0.039	18.25 0.719	30.15 1.185	6 0.236	M8×1 5/16-24UNF	44.5 1.752
<b>35</b> 1 1/4 1 5/16 1 3/8 1 7/16	<b>UEL207D1W3</b> <b>UEL207-104D1W3</b> <b>UEL207-105D1W3</b> <b>UEL207-106D1W3</b> <b>UEL207-107D1W3</b>	35 1.2500 1.3125 1.3750 1.4375	72 2.8346	51.1 2.012	37.6 1.4803	20 0.7874	1.5 0.059	18.8 0.740	32.3 1.272	6.8 0.268	M10×1.25 3/8-24UNF	55.5 2.185
<b>40</b> 1 1/2 1 9/16	<b>UEL208D1W3</b> <b>UEL208-108D1W3</b> <b>UEL208-109D1W3</b>	40 1.5000 1.5625	80 3.1496	56.3 2.217	42.8 1.6850	21 0.8268	1.5 0.059	21.4 0.843	34.9 1.374	6.8 0.268	M10×1.25 3/8-24UNF	60 2.362
<b>45</b> 1 5/8 1 11/16 1 3/4	<b>UEL209D1W3</b> <b>UEL209-110D1W3</b> <b>UEL209-111D1W3</b> <b>UEL209-112D1W3</b>	45 1.6250 1.6875 1.7500	85 3.3465	56.3 2.217	42.8 1.6850	22 0.8661	1.5 0.059	21.4 0.843	34.9 1.374	6.8 0.268	M10×1.25 3/8-24UNF	63.5 2.500
<b>50</b> 1 13/16 1 7/8 1 15/16 2	<b>UEL210D1W3</b> <b>UEL210-113D1W3</b> <b>UEL210-114D1W3</b> <b>UEL210-115D1W3</b> <b>UEL210-200D1W3</b>	50 1.8125 1.8750 1.9375 2.0000	90 3.5433	62.7 2.469	49.2 1.9370	24 0.9449	1.5 0.059	24.6 0.969	38.1 1.500	6.8 0.268	M10×1.25 3/8-24UNF	69.5 2.736

Remarks: 1) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

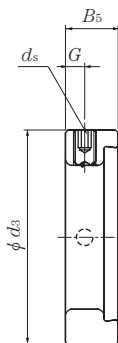


Standard: Seal + Slinger



Triple Sealed Bearing  
UELxxD1LLJW3

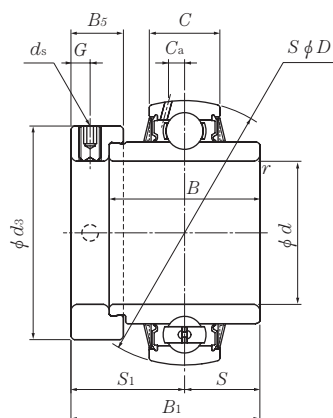
Example : UEL205D1LLJW3



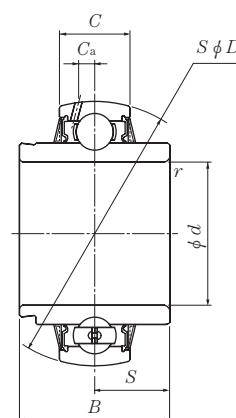
Eccentric locking collar  
ELxxW3

Nominal dimensions		Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
mm	inch	N dynamic	lbf static		kg lb
$B_5$	$C_a$	$C_r$	$C_{or}$	$f_0$	
13.5	3.8	12 800	6 650	13.2	0.23
0.531	0.150	2 890	1 500		0.45
13.5	4	14 000	7 850	13.9	0.27
0.531	0.157	3 150	1 770		0.61
					0.58
					0.55
15.9	4.9	19 500	11 300	13.8	0.45
0.626	0.193	4 400	2 540		0.94
					0.89
					0.84
17.5	5.4	25 700	15 300	13.8	0.60
0.689	0.213	5 750	3 450		1.45
					1.40
					1.35
18.3	6	29 100	17 800	14.0	0.78
0.720	0.236	6 550	4 000		1.90
18.3	6.1	32 500	20 400	14.1	1.82
					0.720
2.05					
1.97					
18.3	6.1	35 000	23 200	14.4	0.96
0.720	0.240	7 900	5 200		2.46
					2.36
					2.25
					2.09

**Ball bearings  
Eccentric locking collar type**



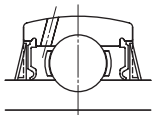
**Eccentric locking collar + bearing  
UELxxxD1W3**



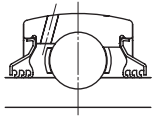
**Eccentric locking collar type  
ULxxxD1**

Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>d</i> <sub>s</sub>	<i>d</i> <sub>3</sub>
mm inch				mm inch								
<b>55</b>	<b>UEL211D1W3</b>	<b>55</b>	<b>100</b>	<b>71.4</b>	<b>55.5</b>	<b>25</b>	<b>2</b>	<b>27.75</b>	<b>43.65</b>	<b>8</b>	<b>M10×1.25</b>	<b>76</b>
<b>2</b>	<b>UEL211-200D1W3</b>	2.0000										
<b>2<sup>1</sup>/<sub>16</sub></b>	<b>UEL211-201D1W3</b>	2.0625	3.9370	2.811	2.1850	0.9843	0.079	1.093	1.717	0.315	<b>3/8-24UNF</b>	2.992
<b>2<sup>1</sup>/<sub>8</sub></b>	<b>UEL211-202D1W3</b>	2.1250										
<b>2<sup>3</sup>/<sub>16</sub></b>	<b>UEL211-203D1W3</b>	2.1875										
<b>60</b>	<b>UEL212D1W3</b>	<b>60</b>	<b>110</b>	<b>77.8</b>	<b>61.9</b>	<b>27</b>	<b>2</b>	<b>30.95</b>	<b>46.85</b>	<b>8</b>	<b>M10×1.25</b>	<b>84</b>
<b>2<sup>1</sup>/<sub>4</sub></b>	<b>UEL212-204D1W3</b>	2.2500										
<b>2<sup>5</sup>/<sub>16</sub></b>	<b>UEL212-205D1W3</b>	2.3125	4.3307	3.063	2.4370	1.0630	0.079	1.219	1.843	0.315	<b>3/8-24UNF</b>	3.307
<b>2<sup>3</sup>/<sub>8</sub></b>	<b>UEL212-206D1W3</b>	2.3750										
<b>2<sup>7</sup>/<sub>16</sub></b>	<b>UEL212-207D1W3</b>	2.4375										
<b>65</b>	<b>UEL213D1W3</b>	<b>65</b>	<b>120</b>	<b>85.7</b>	<b>68.3</b>	<b>32</b>	<b>2</b>	<b>34.15</b>	<b>51.55</b>	<b>8.7</b>	<b>M10×1.25</b>	<b>97</b>
<b>2<sup>1</sup>/<sub>2</sub></b>	<b>UEL213-208D1W3</b>	2.5000	4.7244	3.374	2.6890	1.2598	0.079	1.344	2.030	0.343	<b>3/8-24UNF</b>	3.819
<b>2<sup>9</sup>/<sub>16</sub></b>	<b>UEL213-209D1W3</b>	2.5625										
<b>70</b>	<b>UEL214D1W3</b>	<b>70</b>	<b>125</b>	<b>85.7</b>	<b>68.3</b>	<b>33</b>	<b>2</b>	<b>34.15</b>	<b>51.55</b>	<b>8.7</b>	<b>M10×1.25</b>	<b>97</b>
<b>2<sup>5</sup>/<sub>8</sub></b>	<b>UEL214-210D1W3</b>	2.6250										
<b>2<sup>11</sup>/<sub>16</sub></b>	<b>UEL214-211D1W3</b>	2.6875	4.9213	3.374	2.6890	1.2992	0.079	1.344	2.030	0.343	<b>3/8-24UNF</b>	3.819
<b>2<sup>3</sup>/<sub>4</sub></b>	<b>UEL214-212D1W3</b>	2.7500										
<b>75</b>	<b>UEL215D1W3</b>	<b>75</b>	<b>130</b>	<b>92</b>	<b>74.6</b>	<b>34</b>	<b>2</b>	<b>37.3</b>	<b>54.7</b>	<b>8.7</b>	<b>M10×1.25</b>	<b>102</b>
<b>2<sup>13</sup>/<sub>16</sub></b>	<b>UEL215-213D1W3</b>	2.8125										
<b>2<sup>7</sup>/<sub>8</sub></b>	<b>UEL215-214D1W3</b>	2.8750	5.1181	3.622	2.9370	1.3386	0.079	1.469	2.154	0.343	<b>3/8-24UNF</b>	4.016
<b>2<sup>15</sup>/<sub>16</sub></b>	<b>UEL215-215D1W3</b>	2.9375										
<b>3</b>	<b>UEL215-300D1W3</b>	3.0000										

Remarks: 1) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

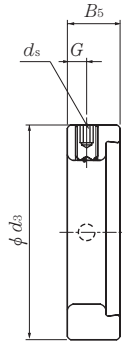


Standard: Seal + Slinger



Triple Sealed Bearing  
UELxxxD1LLJW3

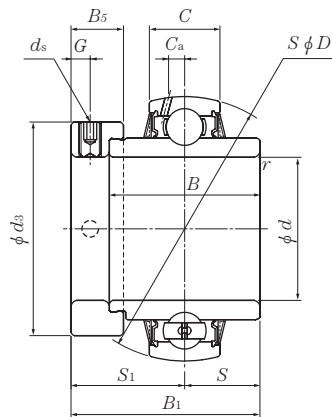
Example : UEL205D1LLJW3



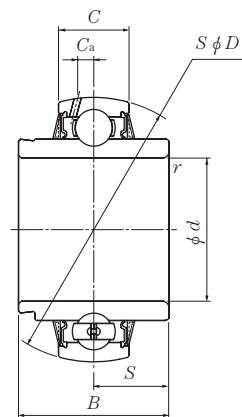
Eccentric locking collar  
ELxxW3

Nominal dimensions		Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
mm	inch	N dynamic	lbf static		kg lb
$B_5$	$C_a$	$C_r$	$C_{or}$	$f_0$	
20.7	6.5	43 500	29 200	14.3	1.32
					3.28
0.815	0.256	9 750	6 550		3.12
					3.02
					2.90
22.3	7.3	52 500	36 000	14.3	1.79
					4.38
0.878	0.287	11 800	8 150		4.22
					4.05
					3.88
23.8	7.3	57 500	40 000	14.4	2.54
					5.47
0.937	0.287	12 900	9 000		5.30
23.8	7.7	62 000	44 000	14.5	2.47
					5.67
0.937	0.303	14 000	9 900		5.45
					5.18
23.8	8	66 000	49 500	14.7	2.68
					6.39
0.937	0.315	14 900	11 100		6.15
					5.91
					5.60

**Ball bearings**  
**Eccentric locking collar type**



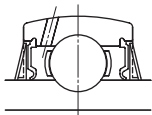
**Eccentric locking collar + bearing**  
**UELxxxD1W3**



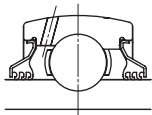
**Eccentric locking collar type**  
**ULxxxD1**

Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	<i>S</i> inch	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>	<i>d</i> <sub>3</sub>
<b>25</b>	<b>UEL305D1W3</b>	25	62	46.8	34.9	20	1.5	16.7	30.1	6	M8×1	42.8
$1\frac{3}{16}$	<b>UEL305-013D1W3</b>	0.8125										
$\frac{7}{8}$	<b>UEL305-014D1W3</b>	0.8750	2.4409	1.843	1.3740	0.7874	0.059	0.657	1.185	0.236	$\frac{5}{16}$ -24UNF	1.685
$1\frac{5}{16}$	<b>UEL305-015D1W3</b>	0.9375										
<b>1</b>	<b>UEL305-100D1W3</b>	1.0000										
<b>30</b>	<b>UEL306D1W3</b>	30	72	50	36.5	23	1.5	17.5	32.5	6.7	M8×1	50
$1\frac{1}{16}$	<b>UEL306-101D1W3</b>	1.0625										
$1\frac{1}{8}$	<b>UEL306-102D1W3</b>	1.1250	2.8346	1.969	1.4370	0.9055	0.059	0.689	1.280	0.264	$\frac{5}{16}$ -24UNF	1.969
$1\frac{3}{16}$	<b>UEL306-103D1W3</b>	1.1875										
<b>35</b>	<b>UEL307D1W3</b>	35	80	51.6	38.1	25	2	18.3	33.3	6.7	M8×1	55
$1\frac{1}{4}$	<b>UEL307-104D1W3</b>	1.2500										
$1\frac{5}{16}$	<b>UEL307-105D1W3</b>	1.3125	3.1496	2.031	1.5000	0.9843	0.079	0.720	1.311	0.264	$\frac{5}{16}$ -24UNF	2.165
$1\frac{3}{8}$	<b>UEL307-106D1W3</b>	1.3750										
$1\frac{7}{16}$	<b>UEL307-107D1W3</b>	1.4375										
<b>40</b>	<b>UEL308D1W3</b>	40	90	57.1	41.3	27	2	19.8	37.3	8	M10×1.25	63.5
$1\frac{1}{2}$	<b>UEL308-108D1W3</b>	1.5000	3.5433	2.248	1.6260	1.0630	0.079	0.780	1.469	0.315	$\frac{3}{8}$ -24UNF	2.500
$1\frac{9}{16}$	<b>UEL308-109D1W3</b>	1.5625										
<b>45</b>	<b>UEL309D1W3</b>	45	100	58.7	42.9	29	2	19.8	38.9	8	M10×1.25	70
$1\frac{5}{8}$	<b>UEL309-110D1W3</b>	1.6250										
$1\frac{11}{16}$	<b>UEL309-111D1W3</b>	1.6875	3.9370	2.311	1.6890	1.1417	0.079	0.780	1.531	0.315	$\frac{3}{8}$ -24UNF	2.756
$1\frac{3}{4}$	<b>UEL309-112D1W3</b>	1.7500										
<b>50</b>	<b>UEL310D1W3</b>	50	110	66.6	49.2	32	2.5	24.6	42	8.7	M10×1.25	76.2
$1\frac{13}{16}$	<b>UEL310-113D1W3</b>	1.8125										
$1\frac{7}{8}$	<b>UEL310-114D1W3</b>	1.8750	4.3307	2.622	1.9370	1.2598	0.098	0.969	1.654	0.343	$\frac{3}{8}$ -24UNF	3.000
$1\frac{15}{16}$	<b>UEL310-115D1W3</b>	1.9375										
<b>55</b>	<b>UEL311D1W3</b>	55	120	73	55.6	34	2.5	27.8	45.2	8.7	M10×1.25	83
<b>2</b>	<b>UEL311-200D1W3</b>	2.0000										
$2\frac{1}{16}$	<b>UEL311-201D1W3</b>	2.0625	4.7244	2.874	2.1890	1.3386	0.098	1.094	1.780	0.343	$\frac{3}{8}$ -24UNF	3.268
$2\frac{1}{8}$	<b>UEL311-202D1W3</b>	2.1250										
$2\frac{3}{16}$	<b>UEL311-203D1W3</b>	2.1875										

Remarks: 1) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

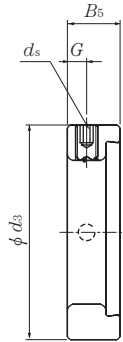


Standard: Seal + Slinger



Triple Sealed Bearing  
UELxxxD1LLJW3

Example : UEL305D1LLJW3

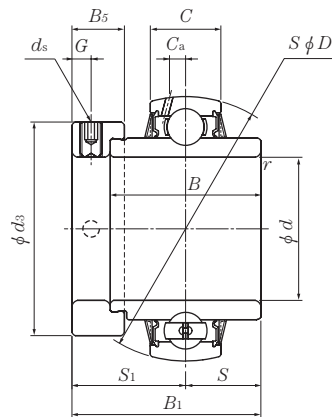


Eccentric locking collar  
ELxxW3

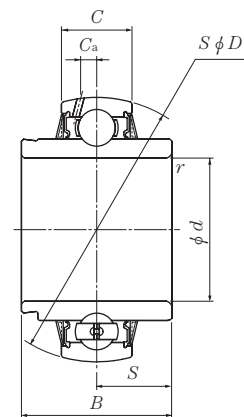
Nominal dimensions		Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
mm	inch	N dynamic	lbf static		kg lb
$B_5$	$C_a$	$C_r$	$C_{or}$	$f_0$	
15.9	5.0	21 200	10 900	12.6	0.43
0.626	0.197	4 750	2 460		1.09
					1.05
					1.01
					0.96
17.5	5.6	26 700	15 000	13.3	0.69
0.689	0.220	6 000	3 400		1.57
					1.51
					1.45
17.5	5.7	33 500	19 100	13.1	0.78
0.689	0.224	7 500	4 300		1.92
					1.84
					1.77
					1.69
20.6	6.1	40 500	24 000	13.2	1.10
0.811	0.240	9 150	5 400		2.58
					2.49
20.6	7.1	53 000	32 000	13.1	1.40
0.811	0.280	11 900	7 200		3.36
					3.26
					3.15
22.2	7.9	62 000	38 500	13.2	1.84
0.874	0.311	13 900	8 600		4.40
					4.29
					4.15
22.2	8.5	71 500	45 000	13.2	2.36
					5.58
0.874	0.335	16 100	10 100		5.39
					5.25
					5.08



**Ball bearings**  
**Eccentric locking collar type**



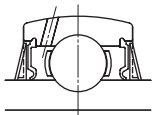
**Eccentric locking collar + bearing**  
**UELxxxD1W3**



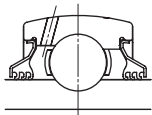
**Eccentric locking collar type**  
**ULxxxD1**

Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	inch <i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>	<i>d</i> <sub>3</sub>
<b>60</b>	<b>UEL312D1W3</b>	<b>60</b>	<b>130</b>	<b>79.4</b>	<b>61.9</b>	<b>36</b>	<b>2.5</b>	<b>30.95</b>	<b>48.45</b>	<b>8.7</b>	<b>M10×1.25</b>	<b>89</b>
<b>2 1/4</b>	<b>UEL312-204D1W3</b>	2.2500										
<b>2 5/16</b>	<b>UEL312-205D1W3</b>	2.3125	5.1181	3.126	2.4370	1.4173	0.098	1.219	1.907	0.343	3/8-24UNF	3.504
<b>2 3/8</b>	<b>UEL312-206D1W3</b>	2.3750										
<b>2 7/16</b>	<b>UEL312-207D1W3</b>	2.4375										
<b>65</b>	<b>UEL313D1W3</b>	<b>65</b>	<b>140</b>	<b>85.7</b>	<b>65.1</b>	<b>39</b>	<b>2.5</b>	<b>32.55</b>	<b>53.15</b>	<b>10.3</b>	<b>M12×1.5</b>	<b>97</b>
<b>2 1/2</b>	<b>UEL313-208D1W3</b>	2.5000	5.5118	3.374	2.5630	1.5354	0.098	1.281	2.093	0.406	1/2-20UNF	3.819
<b>2 5/16</b>	<b>UEL313-209D1W3</b>	2.5625										
<b>70</b>	<b>UEL314D1W3</b>	<b>70</b>	<b>150</b>	<b>92.1</b>	<b>68.3</b>	<b>41</b>	<b>2.5</b>	<b>34.15</b>	<b>57.95</b>	<b>10.3</b>	<b>M12×1.5</b>	<b>102</b>
<b>2 5/8</b>	<b>UEL314-210D1W3</b>	2.6250										
<b>2 11/16</b>	<b>UEL314-211D1W3</b>	2.6875	5.9055	3.626	2.6890	1.6142	0.098	1.344	2.281	0.406	1/2-20UNF	4.016
<b>2 3/4</b>	<b>UEL314-212D1W3</b>	2.7500										
<b>75</b>	<b>UEL315D1W3</b>	<b>75</b>	<b>160</b>	<b>100</b>	<b>74.6</b>	<b>43</b>	<b>2.5</b>	<b>37.3</b>	<b>62.7</b>	<b>12.7</b>	<b>M16×1.5</b>	<b>113</b>
<b>2 13/16</b>	<b>UEL315-213D1W3</b>	2.8125										
<b>2 7/8</b>	<b>UEL315-214D1W3</b>	2.8750	6.2992	3.937	2.9370	1.6929	0.098	1.469	2.469	0.500	5/8-18UNF	4.449
<b>2 15/16</b>	<b>UEL315-215D1W3</b>	2.9375										
<b>3</b>	<b>UEL315-300D1W3</b>	3.0000										
<b>80</b>	<b>UEL316D1W3</b>	<b>80</b>	<b>170</b>	<b>106.4</b>	<b>81</b>	<b>45</b>	<b>2.5</b>	<b>40.5</b>	<b>65.9</b>	<b>12.7</b>	<b>M16×1.5</b>	<b>119</b>
<b>3 1/16</b>	<b>UEL316-301D1W3</b>	3.0625										
<b>3 1/8</b>	<b>UEL316-302D1W3</b>	3.1250	6.6929	4.189	3.1890	1.7717	0.098	1.594	2.594	0.500	5/8-18UNF	4.685
<b>3 3/16</b>	<b>UEL316-303D1W3</b>	3.1875										
<b>85</b>	<b>UEL317D1W3</b>	<b>85</b>	<b>180</b>	<b>109.5</b>	<b>84.1</b>	<b>47</b>	<b>3</b>	<b>42.05</b>	<b>67.45</b>	<b>12.7</b>	<b>M16×1.5</b>	<b>127</b>
<b>3 1/4</b>	<b>UEL317-304D1W3</b>	3.2500										
<b>3 5/16</b>	<b>UEL317-305D1W3</b>	3.3125	7.0866	4.311	3.3110	1.8504	0.118	1.656	2.656	0.500	5/8-18UNF	5.000
<b>3 7/16</b>	<b>UEL317-307D1W3</b>	3.4375										
<b>90</b>	<b>UEL318D1W3</b>	<b>90</b>	<b>190</b>	<b>115.9</b>	<b>87.3</b>	<b>49</b>	<b>3</b>	<b>43.65</b>	<b>72.25</b>	<b>14.3</b>	<b>M20×1.5</b>	<b>133</b>
<b>3 7/16</b>	<b>UEL318-307D1W3</b>	3.4375	7.4803	4.563	3.4370	1.9291	0.118	1.719	2.844	0.563	3/4-16UNF	5.236
<b>3 1/2</b>	<b>UEL318-308D1W3</b>	3.5000										
<b>95</b>	<b>UEL319D1W3</b>	<b>95</b>	<b>200</b>	<b>122.3</b>	<b>93.7</b>	<b>51</b>	<b>3</b>	<b>38.9</b>	<b>83.4</b>	<b>14.3</b>	<b>M20×1.5</b>	<b>140</b>
<b>3 5/8</b>	<b>UEL319-310D1W3</b>	3.6250										
<b>3 11/16</b>	<b>UEL319-311D1W3</b>	3.6875	7.8740	4.815	3.6890	2.0079	0.118	1.531	3.283	0.563	3/4-16UNF	5.512
<b>3 3/4</b>	<b>UEL319-312D1W3</b>	3.7500										

Remarks: 1) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

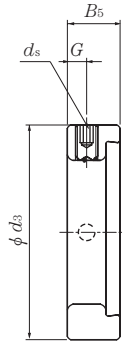


Standard: Seal + Slinger



Triple Sealed Bearing  
UELxxxD1LLJW3

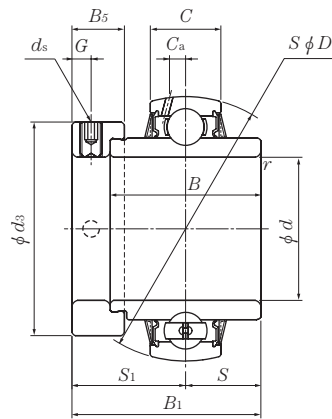
Example : UEL305D1LLJW3



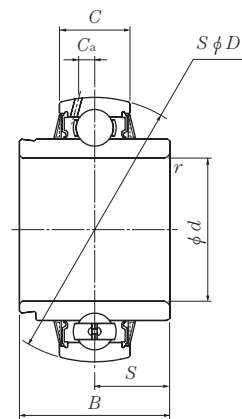
Eccentric locking collar  
ELxxW3

Nominal dimensions		Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
mm	inch	N dynamic	lbf static		kg lb
$B_5$	$C_a$	$C_r$	$C_{or}$	$f_0$	
23.9	9.0	82 000	52 000	13.2	2.94
0.941	0.354	18 400	11 700		6.80
					6.65
					6.48
					6.19
27	9.4	92 500	60 000	13.2	3.67
1.063	0.370	20 800	13 400		8.49
					8.27
30.2	10	104 000	68 000	13.2	4.40
1.189	0.394	23 400	15 300		10.4
					10.2
					9.96
31.8	10.5	113 000	77 000	13.2	5.34
1.252	0.413	25 500	17 400		13.2
					12.9
					12.7
					12.5
31.8	11.1	123 000	86 500	13.3	6.70
1.252	0.437	27 600	19 500		14.9
					14.8
					14.6
31.8	11.5	133 000	97 000	13.3	8.00
1.252	0.453	29 800	21 800		18.0
					17.7
					17.0
36.5	12.2	143 000	107 000	13.3	9.10
1.437	0.480	32 000	24 100		20.7
					20.2
36.5	12.7	153 000	119 000	13.3	10.4
1.437	0.500	34 500	26 600		23.4
					23.0
					22.6

**Ball bearings**  
**Eccentric locking collar type**



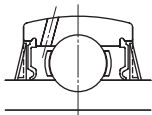
**Eccentric locking collar + bearing**  
**UELxxxD1W3**



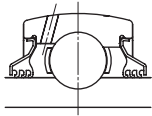
**Eccentric locking collar type**  
**ULxxxD1**

Shaft dia.	Bearing number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm	<i>S</i> inch	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>	<i>d</i> <sub>3</sub>
<b>100</b>	<b>UEL320D1W3</b>	100	215	128.6	100	55	3	50	78.6	14.3	M20×1.5	146
<b>3<sup>13</sup>/<sub>16</sub></b>	<b>UEL320-313D1W3</b>	3.8125										
<b>3<sup>7</sup>/<sub>8</sub></b>	<b>UEL320-314D1W3</b>	3.8750	8.4646	5.063	3.9370	2.1654	0.118	1.969	3.094	0.563	<sup>3</sup> / <sub>4</sub> -16UNF	5.748
<b>3<sup>15</sup>/<sub>16</sub></b>	<b>UEL320-315D1W3</b>	3.9375										
<b>4</b>	<b>UEL320-400D1W3</b>	4.0000										
<b>105</b>	<b>UEL321D1W3</b>	105	225	139.7	104.8	57	3	48.4	91.3	17.5	M20×1.5	157
<b>110</b>	<b>UEL322D1W3</b>	110	240	141.3	106.4	59	3	49.2	92.1	17.5	M20×1.5	168

Remarks: 1) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

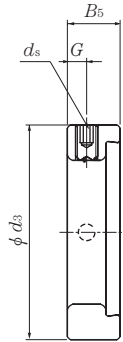


Standard: Seal + Slinger



Triple Sealed Bearing  
UELxxxD1LLJW3

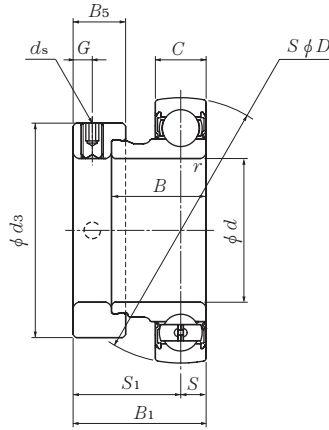
Example : UEL305D1LLJW3



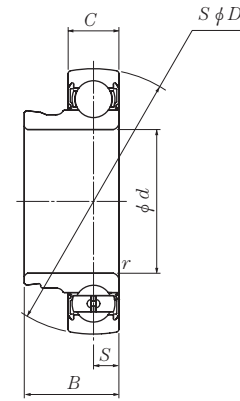
Eccentric locking collar  
ELxxW3

Nominal dimensions		Basic load ratings		Factor <sup>1)</sup>	Mass (approx.)
mm	inch	N dynamic	lbf static		kg lb
$B_5$	$C_a$	$C_r$	$C_{or}$	$f_0$	
36.5	14	173 000	141 000		13.0 28.5
1.437	0.551	39 000	31 500	13.2	28.0 27.6 27.0
42.8	14.6	184 000	153 000	13.2	14.6
42.8	15.6	205 000	179 000	13.1	17.2

**Ball bearings**  
**Eccentric locking collar type**



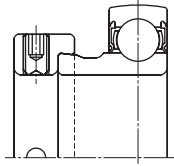
**Eccentric locking collar + bearing**  
**AEL2xxW3**



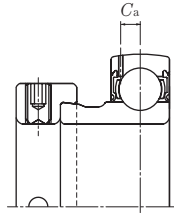
**Bearing**  
**Maintenance free type : AL2xx**  
**Relubricatable :AL2xxD1**

Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions											
		d	D	B <sub>1</sub>	B	C	mm r <sub>s</sub> min.	inch S	S <sub>1</sub>	G	ds	d <sub>3</sub>	
12 1/2	AEL201W3	12	40	28.6	19	12	0.6	6.5	22.1	4.8	M6×0.75	29	
	AEL201-008W3	0.5000	1.5748	1.126	0.7480	0.4724	0.024	0.256	0.870	0.189	1/4-28UNF	1.142	
15 9/16 5/8	AEL202W3	15	40	28.6	19	12	0.6	6.5	22.1	4.8	M6×0.75	29	
	AEL202-009W3	0.5625	1.5748	1.126	0.7480	0.4724	0.024	0.256	0.870	0.189	1/4-28UNF	1.142	
	AEL202-010W3	0.6250											
17 11/16	AEL203W3	17	40	28.6	19	12	0.6	6.5	22.1	4.8	M6×0.75	29	
	AEL203-011W3	0.6875	1.5748	1.126	0.7480	0.4724	0.024	0.256	0.870	0.189	1/4-28UNF	1.142	
20 3/4	AEL204W3	20	47	31	21.5	14	1	7.5	23.5	4.8	M6×0.75	33	
	AEL204-012W3	0.7500	1.8504	1.220	0.8465	0.5512	0.039	0.295	0.925	0.189	1/4-28UNF	1.299	
25 13/16 7/8 15/16 1	AEL205W3	25	52	31	21.5	15	1	7.5	23.5	4.8	M6×0.75	38	
	AEL205-013W3	0.8125											
	AEL205-014W3	0.8750	2.0472	1.220	0.8465	0.5906	0.039	0.295	0.925	0.189	1/4-28UNF	1.496	
	AEL205-015W3	0.9375											
30 1 1/16 1 1/8 1 3/16 1 1/4	AEL206W3	30	62	35.7	23.8	16	1	9	26.7	6	M8×1	44.5	
	AEL206-101W3	1.0625											
	AEL206-102W3	1.1250	2.4409	1.406	0.9370	0.6299	0.039	0.354	1.051	0.236	5/16-24UNF	1.752	
	AEL206-103W3	1.1875											
35 1 1/4 1 5/16 1 3/8 1 7/16	AEL207W3	35	72	38.9	25.4	17	1.5	9.5	29.4	6.8	M10×1.25	55.5	
	AEL207-104W3	1.2500											
	AEL207-105W3	1.3125	2.8346	1.531	1.0000	0.6693	0.059	0.374	1.157	0.268	3/8-24UNF	2.185	
	AEL207-106W3	1.3750											
40 1 1/2 1 9/16	AEL207-107W3	1.4375											
	AEL208W3	40	80	43.7	30.2	18	1.5	11	32.7	6.8	M10×1.25	60	
	AEL208-108W3	1.5000	3.1496	1.720	1.1890	0.7087	0.059	0.433	1.287	0.268	3/8-24UNF	2.362	
	AEL208-109W3	1.5625											

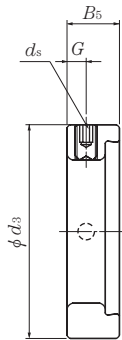
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".  
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : AEL2xxW3  
Example : AEL205W3



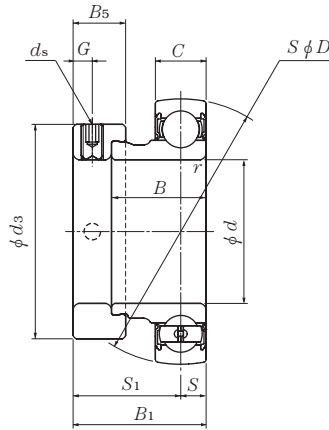
Relubricatable : AEL2xxD1W3  
Example : AEL205D1W3



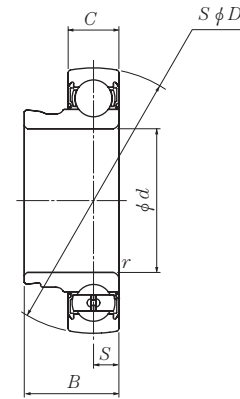
Eccentric locking collar  
EL2xxW3

Nominal dimensions		Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)
mm	inch	N	lbf	static $f_0$	kg lb
$B_5$	$C_a$	$C_r$	$C_{or}$		
13.6	3.7	9 600	4 600	12.8	0.12
0.535	0.146	2 160	1 030		0.26
13.6	3.7	9 600	4 600	12.8	0.11
0.535	0.146	2 160	1 030		0.26
13.6	3.7	9 600	4 600	12.8	0.11
0.535	0.146	2 160	1 030		0.23
13.5	4.2	12 800	6 650	13.2	0.17
0.531	0.165	2 890	1 500		0.35
13.5	4.0	14 000	7 850	13.9	0.22
0.531	0.157	3 150	1 770		0.51
					0.48
					0.45
15.9	5.1	19 500	11 300	13.8	0.31
0.626	0.201	4 400	2 540		0.74
					0.73
					0.66
17.5	5.6	25 700	15 300	13.8	0.50
0.689	0.220	5 750	3 450		1.15
					1.10
					1.04
18.3	6.1	29 100	17 800	14.0	0.66
0.720	0.240	6 550	4 000		1.41
					1.34

**Ball bearings**  
**Eccentric locking collar type**



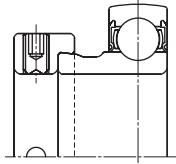
**Eccentric locking collar + bearing**  
**AEL2xxW3**



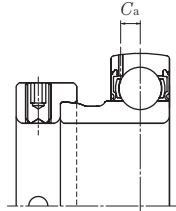
**Bearing**  
**Maintenance free type : AL2xx**  
**Relubricatable :AL2xxD1**

Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions											
		d	D	B <sub>1</sub>	B	C	mm r <sub>s</sub> min.	inch S	S <sub>1</sub>	G	ds	d <sub>3</sub>	
<b>45</b>	<b>AEL209W3</b>	45	85	43.7	30.2	19	1.5	11	32.7	6.8	M10×1.25	63.5	
<b>1 5/8</b>	<b>AEL209-110W3</b>	1.6250											
<b>1 11/16</b>	<b>AEL209-111W3</b>	1.6875	3.3465	1.720	1.1890	0.7480	0.059	0.433	1.287	0.268	3/8-24UNF	2.500	
<b>1 3/4</b>	<b>AEL209-112W3</b>	1.7500											
<b>50</b>	<b>AEL210W3</b>	50	90	43.7	30.2	20	1.5	11	32.7	6.8	M10×1.25	69.5	
<b>1 13/16</b>	<b>AEL210-113W3</b>	1.8125											
<b>1 7/8</b>	<b>AEL210-114W3</b>	1.8750	3.5433	1.720	1.1890	0.7874	0.059	0.433	1.287	0.268	3/8-24UNF	2.736	
<b>1 15/16</b>	<b>AEL210-115W3</b>	1.9375											
<b>2</b>	<b>AEL210-200W3</b>	2.0000											
<b>55</b>	<b>AEL211W3</b>	55	100	48.4	32.5	21	2	12	36.4	8	M10×1.25	76	
<b>2</b>	<b>AEL211-200W3</b>	2.0000											
<b>2 1/16</b>	<b>AEL211-201W3</b>	2.0625	3.9370	1.906	1.2795	0.8268	0.079	0.472	1.433	0.315	3/8-24UNF	2.992	
<b>2 1/8</b>	<b>AEL211-202W3</b>	2.1250											
<b>2 3/16</b>	<b>AEL211-203W3</b>	2.1875											
<b>60</b>	<b>AEL212W3</b>	60	110	53.1	37.2	22	2	13.5	39.6	8	M10×1.25	84	
<b>2 1/4</b>	<b>AEL212-204W3</b>	2.2500											
<b>2 5/16</b>	<b>AEL212-205W3</b>	2.3125	4.3307	2.091	1.4646	0.8661	0.079	0.531	1.559	0.315	3/8-24UNF	3.307	
<b>2 3/8</b>	<b>AEL212-206W3</b>	2.3750											
<b>2 7/16</b>	<b>AEL212-207W3</b>	2.4375											

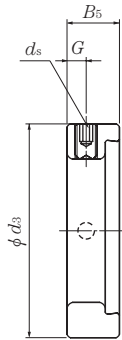
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".  
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : AEL2xxW3  
Example : AEL205W3



Relubricatable : AEL2xxD1W3  
Example : AEL205D1W3

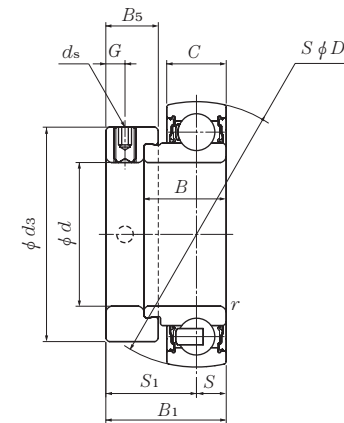


Eccentric locking collar  
EL2xxW3

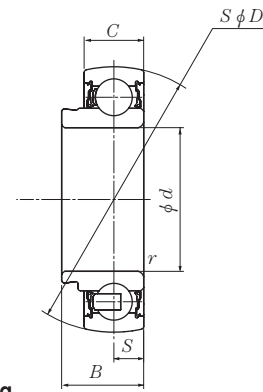
Nominal dimensions		Basic load ratings		Factor <sup>2)</sup> static $f_0$	Mass (approx.) kg lb
mm	inch	N dynamic $C_r$	lbf $C_{or}$		
$B_5$	$C_a$				
18.3	6.3	32 500	20 400	14.1	0.72 1.79
0.720	0.248	7 350	4 600		1.70 1.61
18.3	6.4	35 000	23 200	14.4	0.72 1.81
0.720	0.252	7 900	5 200		1.72 1.63 1.54
20.7	7.0	43 500	29 200	14.3	0.98 2.45
0.815	0.276	9 750	6 550		2.34 2.23 2.12
22.3	7.5	52 500	36 000	14.3	1.31 3.13
0.878	0.295	11 800	8 150		3.00 2.87 2.71



**Ball bearings**  
**Eccentric locking collar type**



**Eccentric locking collar + bearing**  
**JELxxxD1W3**

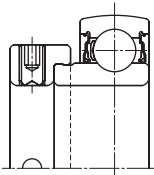


**Bearing**  
**Maintenance free type :JL2xx**  
**Relubricatable :JL2xx**

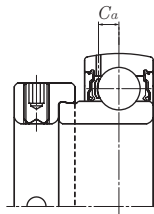
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions											
		d	D	B <sub>1</sub>	B	C	mm r <sub>s</sub> min.	inch S	S <sub>1</sub>	G	ds	d <sub>3</sub>	
12 1/2	JEL201W3	12	40	28.6	19	13	0.6	6.5	22.1	4.8	M6×0.75	29	
	JEL201-008W3	0.5000	1.5748	1.126	0.7480	0.5118	0.024	0.256	0.870	0.189	1/4-28UNF	1.142	
15 9/16 5/8	JEL202W3	15	40	28.6	19	13	0.6	6.5	22.1	4.8	M6×0.75	29	
	JEL202-009W3	0.5625	1.5748	1.126	0.7480	0.5118	0.024	0.256	0.870	0.189	1/4-28UNF	1.142	
	JEL202-010W3	0.6250											
17 1 1/16	JEL203W3	17	40	28.6	19	13	0.6	6.5	22.1	4.8	M6×0.75	29	
	JEL203-011W3	0.6875	1.5748	1.126	0.7480	0.5118	0.024	0.256	0.870	0.189	1/4-28UNF	1.142	
20 3/4	JEL204W3	20	47	31	21.5	15	1	7.5	23.5	4.8	M6×0.75	33	
	JEL204-012W3	0.7500	1.8504	1.220	0.8465	0.5906	0.039	0.295	0.925	0.189	1/4-28UNF	1.299	
25 13/16 7/8 15/16 1	JEL205W3	25	52	31	21.5	15	1	7.5	23.5	4.8	M6×0.75	38	
	JEL205-013W3	0.8125											
	JEL205-014W3	0.8750	2.0472	1.220	0.8465	0.5906	0.039	0.295	0.925	0.189	1/4-28UNF	1.496	
	JEL205-015W3	0.9375											
30 1 1/16 1 1/8 1 3/16 1 1/4	JEL206W3	30	62	35.7	23.8	18	1	9	26.7	6	M8×1	44.5	
	JEL206-101W3	1.0625											
	JEL206-102W3	1.1250	2.4409	1.406	0.9370	0.7087	0.039	0.354	1.051	0.236	5/16-24UNF	1.752	
	JEL206-103W3	1.1875											
35 1 1/4 1 5/16 1 3/8 1 7/16	JEL207W3	35	72	38.9	25.4	19	1.5	9.5	29.4	6.8	M10×1.25	55.5	
	JEL207-104W3	1.2500											
	JEL207-105W3	1.3125	2.8346	1.531	1.0000	0.7480	0.059	0.374	1.157	0.268	3/8-24UNF	2.185	
	JEL207-106W3	1.3750											
40 1 1/2 1 9/16	JEL207-107W3	1.4375											
	JEL208W3	40	80	43.7	30.2	22	1.5	11	32.7	6.8	M10×1.25	60	
	JEL208-108W3	1.5000	3.1496	1.720	1.1890	0.8661	0.059	0.433	1.287	0.268	3/8-24UNF	2.362	
	JEL208-109W3	1.5625											

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

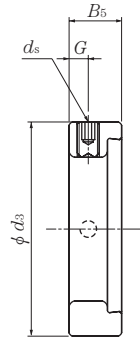
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : JEL2xxW3  
Example :JEL205W3



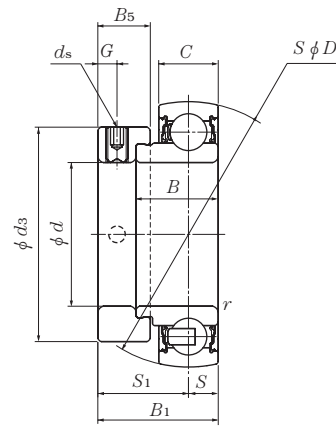
Relubricatable :JEL2xxD1W3  
Example :JEL205D1W3



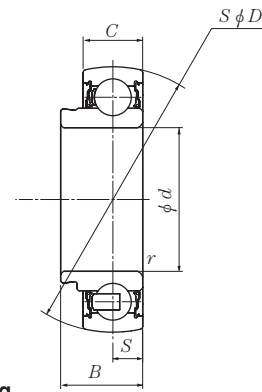
Eccentric locking collar  
EL2xxW3

Nominal dimensions		Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)
mm	inch	N	lbf		
$B_5$	$C_a$	$C_r$ dynamic	$C_{or}$	static $f_0$	kg lb
13.6	3.9	9 600	4 600	12.8	0.12
0.535	0.154	2 160	1 030		0.25
13.6	3.9	9 600	4 600	12.8	0.10
0.535	0.154	2 160	1 030		0.24 0.22
13.6	3.9	9 600	4 600	12.8	0.09
0.535	0.154	2 160	1 030		0.20
13.5	4.3	12 800	6 650	13.2	0.16
0.531	0.169	2 890	1 500		0.37
13.5	4.0	14 000	7 850	13.9	0.19
0.531	0.157	3 150	1 770		0.50
					0.47
					0.44
15.9	4.9	19 500	11 300	13.8	0.33
0.626	0.193	4 400	2 540		0.78
					0.73
					0.69
17.5	5.4	25 700	15 300	13.8	0.50
0.689	0.213	5 750	3 450		1.22
					1.16
					1.11
18.3	6.5	29 100	17 800	14.0	0.65
0.720	0.256	6 550	4 000		1.53
					1.46

**Ball bearings**  
**Eccentric locking collar type**



**Eccentric locking collar + bearing**  
**JELxxxD1W3**

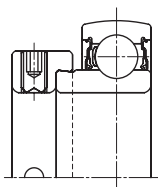


**Bearing**  
**Maintenance free type :JL2xx**  
**Relubricatable :JL2xx**

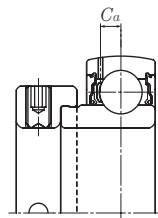
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions											
		d	D	B <sub>1</sub>	B	C	mm r <sub>s</sub> min.	inch S	S <sub>1</sub>	G	ds	d <sub>3</sub>	
<b>45</b>	<b>JEL209W3</b>	45	85	43.7	30.2	22	1.5	11	32.7	6.8	M10×1.25	63.5	
<b>1<sup>5</sup>/<sub>8</sub></b>	<b>JEL209-110W3</b>	1.6250											
<b>1<sup>11</sup>/<sub>16</sub></b>	<b>JEL209-111W3</b>	1.6875	3.3465	1.720	1.1890	0.8661	0.059	0.433	1.287	0.268	<sup>3</sup> / <sub>8</sub> -24UNF	2.500	
<b>1<sup>3</sup>/<sub>4</sub></b>	<b>JEL209-112W3</b>	1.7500											
<b>50</b>	<b>JEL210W3</b>	50	90	43.7	30.2	22	1.5	11	32.7	6.8	M10X1.25	69.5	
<b>1<sup>13</sup>/<sub>16</sub></b>	<b>JEL210-113W3</b>	1.8125											
<b>1<sup>7</sup>/<sub>8</sub></b>	<b>JEL210-114W3</b>	1.8750	3.5433	1.720	1.1890	0.8661	0.059	0.433	1.287	0.268	<sup>3</sup> / <sub>8</sub> -24UNF	2.736	
<b>1<sup>15</sup>/<sub>16</sub></b>	<b>JEL210-115W3</b>	1.9375											
<b>2</b>	<b>JEL210-200W3</b>	2.0000											
<b>55</b>	<b>JEL211W3</b>	55	100	48.4	32.5	24	2	12	36.4	8	M10X1.25	76	
<b>2</b>	<b>JEL211-200W3</b>	2.0000											
<b>2<sup>1</sup>/<sub>16</sub></b>	<b>JEL211-201W3</b>	2.0625	3.9370	1.906	1.2795	0.9449	0.079	0.472	1.433	0.315	<sup>3</sup> / <sub>8</sub> -24UNF	2.992	
<b>2<sup>1</sup>/<sub>8</sub></b>	<b>JEL211-202W3</b>	2.1250											
<b>2<sup>3</sup>/<sub>16</sub></b>	<b>JEL211-203W3</b>	2.1875											
<b>60</b>	<b>JEL212W3</b>	60	110	53.1	37.2	27	2	13.5	39.6	8	M10X1.25	84	
<b>2<sup>1</sup>/<sub>4</sub></b>	<b>JEL212-204W3</b>	2.2500											
<b>2<sup>5</sup>/<sub>16</sub></b>	<b>JEL212-205W3</b>	2.3125	4.3307	2.091	1.4646	1.0630	0.079	0.531	1.559	0.315	<sup>3</sup> / <sub>8</sub> -24UNF	3.307	
<b>2<sup>3</sup>/<sub>8</sub></b>	<b>JEL212-206W3</b>	2.3750											
<b>2<sup>7</sup>/<sub>16</sub></b>	<b>JEL212-207W3</b>	2.4375											

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

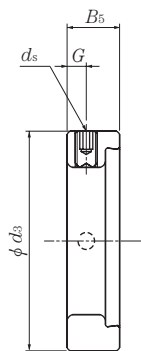
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : JEL2xxW3  
Example :JEL205W3



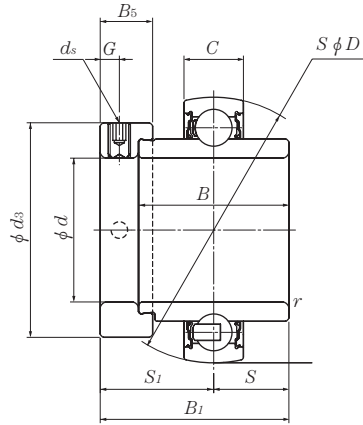
Relubricatable :JEL2xxD1W3  
Example :JEL205D1W3



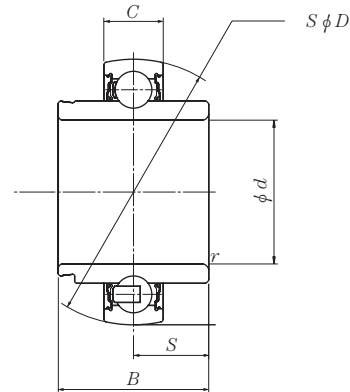
Eccentric locking collar  
EL2xxW3

Nominal dimensions		Basic load ratings		Factor <sup>2)</sup> static $f_0$	Mass (approx.) kg lb
mm	inch	N dynamic $C_r$	lbf $C_{or}$		
18.3	6.1	32 500	20 400	14.1	0.76 1.87
0.720	0.240	7 350	4 600		1.79 1.72
18.3	6.7	35 000	23 200	14.4	0.84 2.09
0.720	0.264	7 900	5 200		2.01 1.92 1.81
20.7	7.4	43 500	29 200	14.3	1.13 2.78
0.815	0.291	9 750	6 550		2.67 2.56 2.45
22.3	7.3	52 500	36 000	14.3	1.48 3.51
0.878	0.287	11 800	8 150		3.37 3.24 3.09

## Ball bearings Eccentric locking collar type



Eccentric locking collar + bearing  
RELxxxD1W3

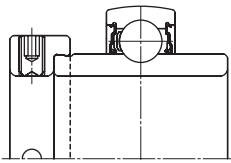


Bearing  
Maintenance free type : RL2xx  
Relubricatable : RL2xxD1

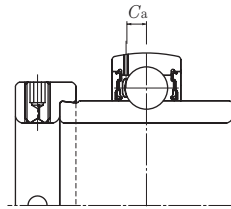
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	inch <i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>d</i> <sub>s</sub>	<i>d</i> <sub>3</sub>
20 3/4	REL204W3	20	47	43.7	34.2	15	1	17.1	26.6	4.8	M6×0.75	33.0
	REL204-012W3	0.7500	1.8504	1.720	1.3465	0.5906	0.039	0.673	1.047	0.189	1/4-28UNF	1.299
25 13/16 7/8 15/16 1	REL205W3	25	52	44.4	34.9	15	1	17.45	26.95	4.8	M6×0.75	38.0
	REL205-013W3	0.8125										
	REL205-014W3	0.8750	2.0472	1.748	1.3740	0.5906	0.039	0.687	1.059	0.189	1/4-28UNF	1.496
	REL205-015W3	0.9375										
1	REL205-100W3	1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	REL206W3	30	62	48.4	36.5	18	1	18.25	30.15	6	M8×1	44.5
	REL206-101W3	1.0625										
	REL206-102W3	1.1250	2.4409	1.906	1.4370	0.7087	0.039	0.719	1.185	0.236	5/16-24UNF	1.752
	REL206-103W3	1.1875										
1 1/4	REL206-104W3	1.2500										
35 1 1/4 1 5/16 1 3/8 1 7/16	REL207W3	35	72	51.1	37.6	19	1.5	18.8	32.3	6.8	M10×1.25	55.5
	REL207-104W3	1.2500										
	REL207-105W3	1.3125	2.8346	2.012	1.4803	0.7480	0.059	0.740	1.272	0.268	3/8-24UNF	2.185
	REL207-106W3	1.3750										
1 7/16	REL207-107W3	1.4375										
40 1 1/2 1 9/16	REL208W3	40	80	56.3	42.8	22	1.5	21.4	34.9	6.8	M10×1.25	60.0
	REL208-108W3	1.5000	3.1496	2.217	1.6850	0.8661	0.059	0.843	1.374	0.268	3/8-24UNF	2.362
	REL208-109W3	1.5625										
45 1 5/8 1 11/16 1 3/4	REL209W3	45	85	56.3	42.8	22	1.5	21.4	34.9	6.8	M10×1.25	63.5
	REL209-110W3	1.6250										
	REL209-111W3	1.6875	3.3465	2.217	1.6850	0.8661	0.059	0.843	1.374	0.268	3/8-24UNF	2.500
	REL209-112W3	1.7500										
50 1 13/16 1 7/8 1 15/16 2	REL210W3	50	90	62.7	49.2	22	1.5	24.6	38.1	6.8	M10×1.25	69.5
	REL210-113W3	1.8125										
	REL210-114W3	1.8750	3.5433	2.469	1.9370	0.8661	0.059	0.969	1.500	0.268	3/8-24UNF	2.736
	REL210-115W3	1.9375										
	REL210-200W3	2.0000										

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

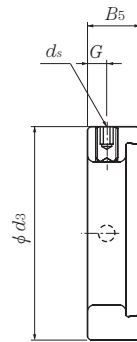
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : REL2xxW3  
Example : REL205W3



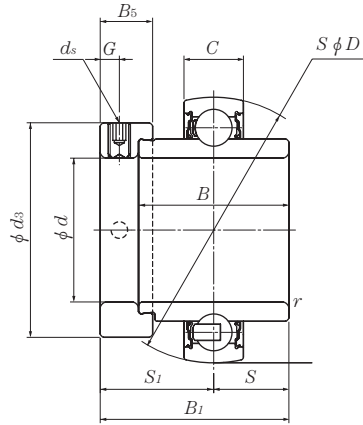
Relubricatable : REL2xxD1W3  
Example : REL205D1W3



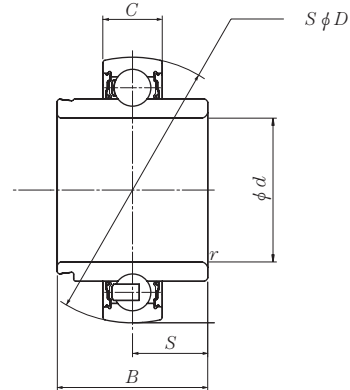
Eccentric locking collar  
EL2xxW3

Nominal dimensions		Basic load ratings		Factor <sup>2)</sup> static $f_0$	Mass (approx.) kg lb				
mm	inch	N dynamic $C_r$	lbf $C_{or}$						
13.5	4.3	12 800	6 650	13.2	0.22				
0.531	0.169	2 890	1 500		0.43				
13.5	4.0	14 000	7 850	13.9	0.26				
0.531	0.157	3 150	1 770		0.59				
					0.56				
					0.53				
15.9	4.9	19 500	11 300	13.8	0.39				
0.626	0.193	4 400	2 540		0.92				
					0.87				
					0.82				
17.5	5.4	25 700	15 300	13.8	0.59				
0.689	0.213	5 750	3 450		1.41				
					1.36				
					1.31				
18.3	6.5	29 100	17 800	14.0	0.76				
0.720	0.256	6 550	4 000		1.88				
18.3	6.1	32 500	20 400	14.1	1.80				
					0.720	0.240	7 350	4 600	0.78
									2.01
1.93									
18.3	6.7	35 000	23 200	14.4	1.84				
					0.720	0.264	7 900	5 200	0.96
									2.42
									2.32
2.21									
					2.05				

## Ball bearings Eccentric locking collar type



Eccentric locking collar + bearing  
RELxxxD1W3

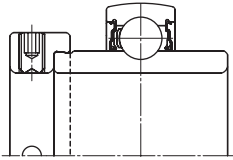


Bearing  
Maintenance free type : RL2xx  
Relubricatable :RL2xxD1

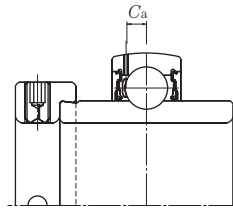
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions											
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	inch <i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>	<i>d</i> <sub>3</sub>	
<b>55</b>	<b>REL211W3</b>	55	100	71.4	55.5	24	2	27.75	43.65	8	M10×1.25	76	
<b>2</b>	<b>REL211-200W3</b>	2.0000											
<b>2<sup>1</sup>/<sub>16</sub></b>	<b>REL211-201W3</b>	2.0625	3.9370	2.811	2.1850	0.9449	0.079	1.093	1.717	0.315	3/8-24UNF	2.992	
<b>2<sup>1</sup>/<sub>8</sub></b>	<b>REL211-202W3</b>	2.1250											
<b>2<sup>3</sup>/<sub>16</sub></b>	<b>REL211-203W3</b>	2.1875											
<b>60</b>	<b>REL212W3</b>	60	110	77.8	61.9	27	2	30.95	46.85	8	M10×1.25	84	
<b>2<sup>1</sup>/<sub>4</sub></b>	<b>REL212-204W3</b>	2.2500											
<b>2<sup>5</sup>/<sub>16</sub></b>	<b>REL212-205W3</b>	2.3125	4.3307	3.063	2.4370	1.0630	0.079	1.219	1.843	0.315	3/8-24UNF	3.307	
<b>2<sup>3</sup>/<sub>8</sub></b>	<b>REL212-206W3</b>	2.3750											
<b>2<sup>7</sup>/<sub>16</sub></b>	<b>REL212-207W3</b>	2.4375											

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

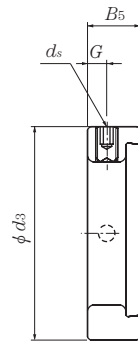
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.



Maintenance free type : REL2xxW3  
Example :REL205W3



Relubricatable :REL2xxD1W3  
Example :REL205D1W3

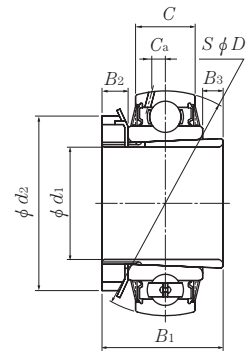


Eccentric locking collar  
EL2xxW3

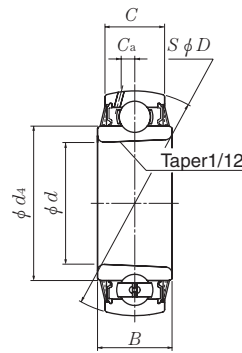
Nominal dimensions		Basic load ratings		Factor <sup>2)</sup> static $f_0$	Mass (approx.) kg lb	
mm	inch	N dynamic $C_r$	lbf dynamic $C_{or}$			
20.7	7.4	43 500	29 200	14.3	1.28 3.21	
0.815	0.291	9 750	6 550		3.05 2.95 2.83	
22.3	7.3	52 500	36 000		14.3	1.83 4.29
0.878	0.287	11 800	8 150			4.13 3.96 3.79



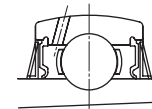
## Ball bearings Adapter type



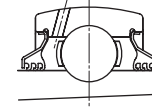
Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1



Standard : Seal + Slinger



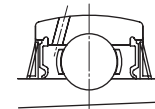
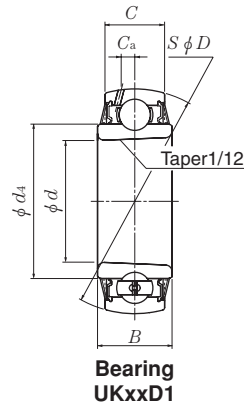
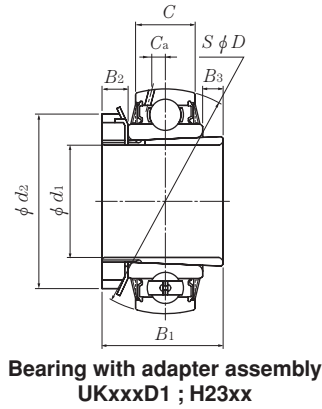
Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK205D1LLJ ; H2305X

Shaft dia.	Bearing number <sup>1) 2)</sup>	Nominal dimensions										
		mm					inch					
mm inch		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>d</i> <sub>4</sub>	<i>d</i> <sub>1</sub>	<i>B</i> <sub>1</sub>	<i>B</i> <sub>2</sub>	<i>d</i> <sub>2</sub>	<i>C</i> <sub>a</sub>	<i>B</i> <sub>3</sub>
20 ¾	UK205D1;H2305X UK205D1;HE2305	25 0.9843	52 2.0472	23 0.9055	17 0.6693	33.9 1.335	20 ¾	35 1.378	8 0.315	38 1.496	4.0 0.157	4.0 0.157
25 ⅞ 1	UK206D1;H2306X UK206D1;HS2306 UK206D1;HE2306X	30 1.1811	62 2.4409	26 1.0236	19 0.7480	40.8 1.606	25 ⅞ 1	38 1.496	8 0.315	45 1.772	4.9 0.193	4.0 0.157
30 1⅛	UK207D1;H2307X UK207D1;HS2307	35 1.3780	72 2.8346	29 1.1417	20 0.7874	46.8 1.843	30 1⅛	43 1.693	9 0.354	52 2.047	5.4 0.213	5.0 0.197
35 1¼ 1⅜	UK208D1;H2308X UK208D1;HE2308X UK208D1;HS2308X	40 1.5748	80 3.1496	31 1.2205	21 0.8268	53 2.087	35 1¼ 1⅜	46 1.811	10 0.394	58 2.283	6.0 0.236	5.0 0.197
40 1⅞ 1½ 1⅝	UK209D1;H2309X UK209D1;HA2309 UK209D1;HE2309X UK209D1;HS2309X	45 1.7717	85 3.3465	31 1.2205	22 0.8661	57.5 2.264	40 1⅞ 1½ 1⅝	50 1.969	11 0.433	65 2.559	6.1 0.240	8.0 0.315
45 1⅝ 1⅞ 1¾	UK210D1;H2310X UK210D1;HS2310 UK210D1;HA2310 UK210D1;HE2310X	50 1.9685	90 3.5433	32 1.2598	24 0.9449	62.4 2.457	45 1⅝ 1⅞ 1¾	55 2.165	12 0.472	70 2.756	6.1 0.240	11.0 0.433
50 1⅞ 1⅞ 2	UK211D1;H2311X UK211D1;HS2311 UK211D1;HA2311 UK211D1;HE2311XY	55 2.1654	100 3.9370	35 1.3780	25 0.9843	69 2.717	50 1⅞ 1⅞ 2	59 2.323	12 0.472	75 2.953	6.5 0.256	12.0 0.472
55 2⅛	UK212D1;H2312X UK212D1;HS2312	60 2.3622	110 4.3307	38 1.4961	27 1.0630	77 3.031	55 2⅛	62 2.441	13 0.512	80 3.150	7.3 0.287	11.0 0.433
60 2⅜ 2¼ 2⅜	UK213D1;H2313X UK213D1;HA2313 UK213D1;HE2313X UK213D1;HS2313X	65 2.5591	120 4.7244	40 1.5748	32 1.2598	82.5 3.248	60 2⅜ 2¼ 2⅜	65 2.559	14 0.551	85 3.346	7.3 0.287	11.0 0.433

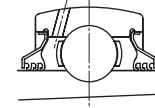
- Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.  
2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.  
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>3)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
14 000	7 850	13.9	0.23	
3 150	1 770		0.57	
19 500	11 300	13.8	0.36	
4 400	2 540		0.86	0.78
25 700	15 300	13.8	0.55	
5 750	3 450		1.30	
29 100	17 800	14.0	0.74	
6 550	4 000		1.77	1.63
32 500	20 400	14.1	0.80	
7 350	4 600		2.01	1.93
			1.76	
35 000	23 200	14.4	0.94	
7 900	5 200		2.38	2.28
			2.18	
43 500	29 200	14.3	1.22	
9 750	6 550		2.96	2.84
			2.70	
52 500	36 000	14.3	1.54	
11 800	8 150		3.60	
57 500	40 000	14.4	2.00	
12 900	9 000		4.86	4.70
			4.38	

**Ball bearings  
Adapter type**



**Standard : Seal + Slinger**



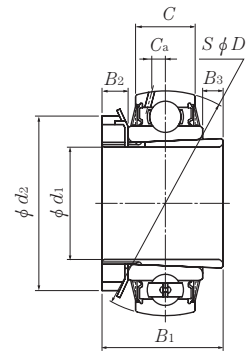
**Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK205D1LLJ ; H2305X**

Shaft dia.  mm inch	Bearing number <sup>1) 2)</sup>	Nominal dimensions										
		mm					inch					
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>d</i> <sub>4</sub>	<i>d</i> <sub>1</sub>	<i>B</i> <sub>1</sub>	<i>B</i> <sub>2</sub>	<i>d</i> <sub>2</sub>	<i>C</i> <sub>a</sub>	<i>B</i> <sub>3</sub>
<b>65</b> $2\frac{7}{16}$ $2\frac{1}{2}$	<b>UK215D1;H2315X</b> <b>UK215D1;HA2315</b> <b>UK215D1;HE2315X</b>	75	130	44	34	93	65	73	15	98	8.0	14.0
		2.9528	5.1181	1.7323	1.3386	3.661	$2\frac{7}{16}$ $2\frac{1}{2}$	2.874	0.591	3.858	0.315	0.551
<b>70</b> $2\frac{11}{16}$ $2\frac{3}{4}$	<b>UK216D1;H2316X</b> <b>UK216D1;HA2316</b> <b>UK216D1;HE2316X</b>	80	140	45	35	98.1	70	78	17	105	8.0	16.0
		3.1496	5.5118	1.7717	1.3780	3.862	$2\frac{11}{16}$ $2\frac{3}{4}$	3.071	0.669	4.134	0.315	0.630
<b>75</b> $2\frac{15}{16}$ <b>3</b>	<b>UK217D1;H2317X</b> <b>UK217D1;HA2317X</b> <b>UK217D1;HE2317X</b>	85	150	46	36	106.4	75	82	18	110	7.9	18.0
		3.3465	5.9055	1.8110	1.4173	4.189	$2\frac{15}{16}$ <b>3</b>	3.228	0.709	4.331	0.311	0.709
<b>80</b> $3\frac{3}{16}$	<b>UK218D1;H2318X</b> <b>UK218D1;HA2318X</b>	90	160	47	37	111.6	80	86	18	120	8.7	21.0
		3.5433	6.2992	1.8504	1.4567	4.394	$3\frac{3}{16}$	3.386	0.709	4.724	0.343	0.827

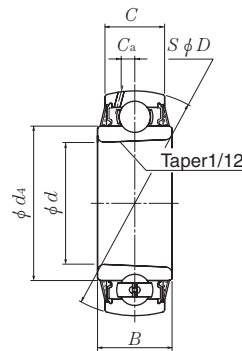
- Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.  
2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.  
3) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>3)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
66 000	49 500	14.7	2.56	6.04
14 900	11 100		5.84	
72 500	53 000	14.6	3.23	7.38
16 300	11 900		7.14	
83 500	64 000	14.7	3.93	8.73
18 700	14 300		8.46	
96 000	71 500	14.5	4.51	11.0
21 600	16 100			

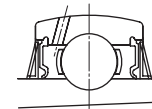
## Ball bearings Adapter type



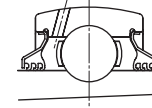
Bearing with adapter assembly  
UKxxxD1 ; H23xx



Bearing  
UKxxD1



Standard : Seal + Slinger



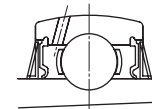
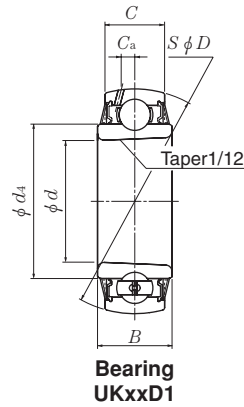
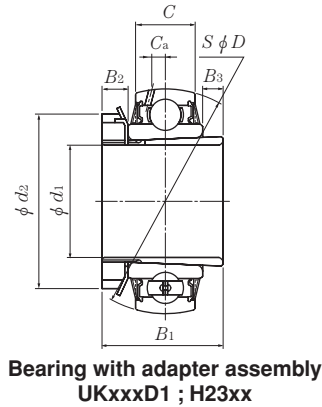
Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK305D1LLJ ; H2305X

Shaft dia.	Bearing number <sup>1) 2)</sup>	Nominal dimensions										
		mm					inch					
mm inch		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>d</i> <sub>4</sub>	<i>d</i> <sub>1</sub>	<i>B</i> <sub>1</sub>	<i>B</i> <sub>2</sub>	<i>d</i> <sub>2</sub>	<i>C</i> <sub>a</sub>	<i>B</i> <sub>3</sub>
20 ¾	UK305D1;H2305X UK305D1;HE2305	25 0.9843	62 2.4409	26 1.0236	20 0.7874	36.8 1.449	20 ¾	35 1.378	8 0.315	38 1.496	5.0 0.197	1.0 0.039
25 ⅞ 1	UK306D1;H2306X UK306D1;HS2306 UK306D1;HE2306X	30 1.1811	72 2.8346	29 1.1417	23 0.9055	44.9 1.768	25 ⅞ 1	38 1.496	8 0.315	45 1.772	5.6 0.220	1.0 0.039
30 1⅛	UK307D1;H2307X UK307D1;HS2307	35 1.3780	80 3.1496	33 1.2992	25 0.9843	49.4 1.945	30 1⅛	43 1.693	9 0.354	52 2.047	5.7 0.224	1.0 0.039
35 1¼ 1⅜	UK308D1;H2308X UK308D1;HE2308X UK308D1;HS2308X	40 1.5748	90 3.5433	34 1.3386	27 1.0630	56 2.205	35 1¼ 1⅜	46 1.811	10 0.394	58 2.283	6.1 0.240	2.0 0.079
40 1⅞ 1½ 1⅝	UK309D1;H2309X UK309D1;HA2309 UK309D1;HE2309X UK309D1;HS2309X	45 1.7717	100 3.9370	37 1.4567	29 1.1417	63.5 2.500	40 1⅞ 1½ 1⅝	50 1.969	11 0.433	65 2.559	7.1 0.280	2.0 0.079
45 1⅝ 1⅞ 1¾	UK310D1;H2310X UK310D1;HS2310 UK310D1;HA2310 UK310D1;HE2310X	50 1.9685	110 4.3307	41 1.6142	32 1.2598	70.6 2.780	45 1⅝ 1⅞ 1¾	55 2.165	12 0.472	70 2.756	7.9 0.311	2.0 0.079
50 1⅞ 1⅞ 2	UK311D1;H2311X UK311D1;HS2311 UK311D1;HA2311 UK311D1;HE2311XY	55 2.1654	120 4.7244	44 1.7323	34 1.3386	76.6 3.016	50 1⅞ 1⅞ 2	59 2.323	12 0.472	75 2.953	8.5 0.335	3.0 0.118
55 2⅛	UK312D1;H2312X UK312D1;HS2312	60 2.3622	130 5.1181	47 1.8504	36 1.4173	82.7 3.256	55 2⅛	62 2.441	13 0.512	80 3.150	9.0 0.354	2.0 0.079
60 2⅜ 2¼ 2⅜	UK313D1;H2313X UK313D1;HA2313 UK313D1;HE2313X UK313D1;HS2313X	65 2.5591	140 5.5118	49 1.9291	39 1.5354	88.2 3.472	60 2⅜ 2¼ 2⅜	65 2.559	14 0.551	85 3.346	9.4 0.370	2.0 0.079

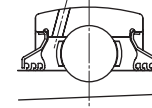
- Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.  
2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.  
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>3)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
21 200	10 900	12.6	0.36	
4 750	2 460		0.81	
26 700	15 000	13.3	0.59	
6 000	3 400		1.37	1.29
33 500	19 100	13.1	0.75	
7 500	4 300		1.70	
40 500	24 000	13.2	1.00	
9 150	5 400		2.38	2.25
53 000	32 000	13.1	1.28	
11 900	7 200		3.22	3.14
			2.97	
62 000	38 500	13.2	1.72	
13 900	8 600		3.95	3.85
			3.74	
71 500	45 000	13.2	2.06	
16 100	10 100		4.73	4.60
			4.46	
82 000	52 000	13.2	2.58	
18 400	11 700		5.67	
92 500	60 000	13.2	3.08	
20 800	13 400		7.24	7.08
			6.76	

**Ball bearings  
Adapter type**



**Standard : Seal + Slinger**



**Triple Sealed  
UKxxxD1LLJ ; H23xx  
Example : UK305D1LLJ ; H2305X**

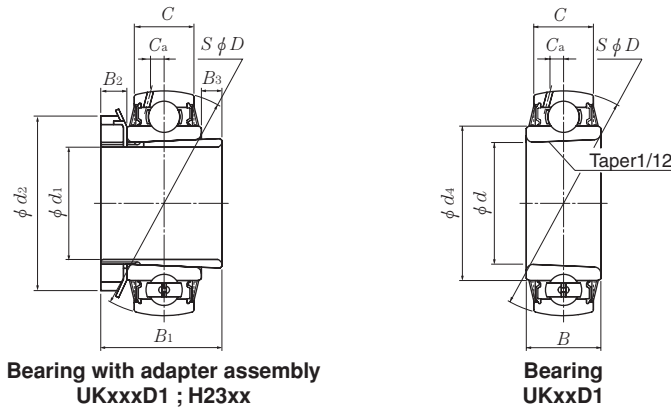
Shaft dia.  mm inch	Bearing number <sup>1) 2)</sup>	Nominal dimensions										
		mm					inch					
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>d</i> <sub>4</sub>	<i>d</i> <sub>1</sub>	<i>B</i> <sub>1</sub>	<i>B</i> <sub>2</sub>	<i>d</i> <sub>2</sub>	<i>C</i> <sub>a</sub>	<i>B</i> <sub>3</sub>
<b>65</b> $2\frac{7}{16}$ $2\frac{1}{2}$	<b>UK315D1;H2315X</b> <b>UK315D1;HA2315</b> <b>UK315D1;HE2315X</b>	75	160	55	43	101.3	65	73	15	98	10.5	3.0
		2.9528	6.2992	2.1654	1.6929	3.988	$2\frac{7}{16}$ $2\frac{1}{2}$	2.874	0.591	3.858	0.413	0.118
<b>70</b> $2\frac{11}{16}$ $2\frac{3}{4}$	<b>UK316D1;H2316X</b> <b>UK316D1;HA2316</b> <b>UK316D1;HE2316X</b>	80	170	58	45	107.9	70	78	17	105	11.1	3.0
		3.1496	6.6929	2.2835	1.7717	4.248	$2\frac{11}{16}$ $2\frac{3}{4}$	3.071	0.669	4.134	0.437	0.118
<b>75</b> $2\frac{15}{16}$ <b>3</b>	<b>UK317D1;H2317X</b> <b>UK317D1;HA2317X</b> <b>UK317D1;HE2317X</b>	85	180	60	47	114.4	75	82	18	110	11.5	4.0
		3.3465	7.0866	2.3622	1.8504	4.504	$2\frac{15}{16}$ <b>3</b>	3.228	0.709	4.331	0.453	0.157
<b>80</b> $3\frac{3}{16}$	<b>UK318D1;H2318X</b> <b>UK318D1;HA2318X</b>	90	190	64	49	120.9	80	86	18	120	12.2	4.0
		3.5433	7.4803	2.5197	1.9291	4.760	$3\frac{3}{16}$	3.386	0.709	4.724	0.480	0.157
<b>85</b> $3\frac{1}{4}$	<b>UK319D1;H2319X</b> <b>UK319D1;HE2319X</b>	95	200	67	51	127.5	85	90	19	125	12.7	4.0
		3.7402	7.8740	2.6378	2.0079	5.020	$3\frac{1}{4}$	3.543	0.748	4.921	0.500	0.157
<b>90</b> $3\frac{7}{16}$ $3\frac{1}{2}$	<b>UK320D1;H2320X</b> <b>UK320D1;HA2320</b> <b>UK320D1;HE2320X</b>	100	215	73	55	135.6	90	97	20	130	14.0	4.0
		3.9370	8.4646	2.8740	2.1654	5.33 <sup>9</sup>	$3\frac{7}{16}$ $3\frac{1}{2}$	3.819	0.787	5.118	0.551	0.157
<b>100</b>	<b>UK322D1;H2322X</b>	110	240	80	59	151.7	100	105	21	145	15.6	4.0
<b>110</b>	<b>UK324D1;H2324X</b>	120	260	86	63	165.2	110	112	22	155	15.5	4.0
<b>115</b>	<b>UK326D1;H2326</b>	130	280	90	67	178.3	115	121	23	165	16.6	8.0
<b>125</b>	<b>UK328D1;H2328</b>	140	300	95	71	190.4	125	131	24	180	17.8	12.0

- Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.  
2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.  
3) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>3)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
113 000	77 000	13.2	4.75	11.1
25 500	17 400		10.9	
123 000	86 500	13.3	5.75	12.9
27 600	19 500		12.7	
133 000	97 000	13.3	6.72	14.9
29 800	21 800		14.6	
143 000	107 000	13.3	7.75	17.2
32 000	24 100			
153 000	119 000	13.3	9.02	20.4
34 500	26 600			
173 000	141 000	13.2	11.0	24.7
39 000	31 500		25.1	
205 000	179 000	13.1	14.9	
207 000	185 000	13.5	18.0	
229 000	214 000	13.6	23.3	
253 000	246 000	13.6	28.6	



## Ball bearings Adapter type

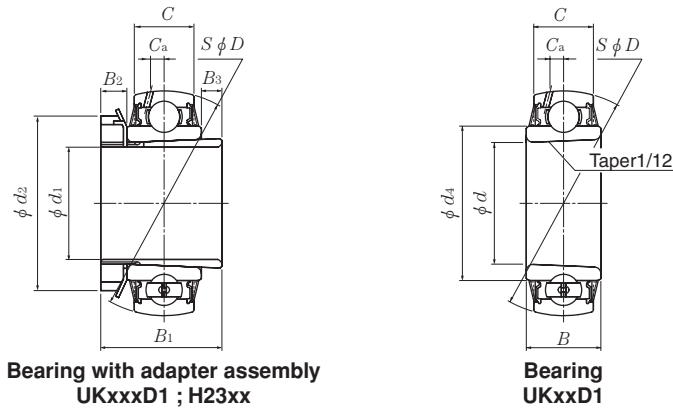


Shaft dia. mm inch	Bearing number <sup>1) 2)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>d</i> <sub>4</sub>	<i>d</i> <sub>1</sub>	<i>B</i> <sub>1</sub>	<i>B</i> <sub>2</sub>	<i>d</i> <sub>2</sub>	<i>C</i> <sub>a</sub>	<i>B</i> <sub>3</sub>
20 ¾	UKX05D1;H2305X UKX05D1;HE2305	25 0.9843	62 2.4409	26 1.0236	19 0.7480	40.8 1.606	20 ¾	35 1.378	8 0.315	38 1.496	4.9 0.193	1.0 0.039
25 ⅞ 1	UKX06D1;H2306X UKX06D1;HS2306 UKX06D1;HE2306X	30 1.1811	72 2.8346	29 1.1417	20 0.7874	46.8 1.843	25 ⅞ 1	38 1.496	8 0.315	45 1.772	5.4 0.213	1.0 0.039
30 1⅛	UKX07D1;H2307X UKX07D1;HS2307	35 1.3780	80 3.1496	31 1.2205	21 0.8268	53 2.087	30 1⅛	43 1.693	9 0.354	52 2.047	6.0 0.236	3.0 0.118
35 1¼ 1⅜	UKX08D1;H2308X UKX08D1;HE2308X UKX08D1;HS2308X	40 1.5748	85 3.3465	31 1.2205	22 0.8661	57.5 2.264	35 1¼ 1⅜	46 1.811	10 0.394	58 2.283	6.1 0.240	5.0 0.197
40 1⅞ 1½ 1⅝	UKX09D1;H2309X UKX09D1;HA2309 UKX09D1;HE2309X UKX09D1;HS2309X	45 1.7717	90 3.5433	32 1.2598	24 0.9449	62.4 2.457	40 1⅞ 1½ 1⅝	50 1.969	11 0.433	65 2.559	6.1 0.240	7.0 0.276
45 1⅝ 1⅞ 1¾	UKX10D1;H2310X UKX10D1;HS2310 UKX10D1;HA2310 UKX10D1;HE2310X	50 1.9685	100 3.9370	35 1.3780	25 0.9843	69 2.717	45 1⅝ 1⅞ 1¾	55 2.165	12 0.472	70 2.756	6.5 0.256	8.0 0.315
50 1⅞ 1⅞ 2	UKX11D1;H2311X UKX11D1;HS2311 UKX11D1;HA2311 UKX11D1;HE2311XY	55 2.1654	110 4.3307	38 1.4961	27 1.0630	77 3.031	50 1⅞ 1⅞ 2	59 2.323	12 0.472	75 2.953	7.3 0.287	9.0 0.354
55 2⅛	UKX12D1;H2312X UKX12D1;HS2312	60 2.3622	120 4.7244	40 1.5748	32 1.2598	82.5 3.248	55 2⅛	62 2.441	13 0.512	80 3.150	7.3 0.287	9.0 0.354
60 2⅜ 2¼ 2⅝	UKX13D1;H2313X UKX13D1;HA2313 UKX13D1;HE2313X UKX13D1;HS2313X	65 2.5591	125 4.9213	42 1.6535	33 1.2992	87 3.425	60 2⅜ 2¼ 2⅝	65 2.559	14 0.551	85 3.346	7.7 0.303	9.0 0.354

- Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.  
In this case the lock washer with the straight inner prong should be used.
- 2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve.  
To distinguish it, a suffix "Y" is added.
- 3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>3)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
19 500	11 300	13.8	0.38	
4 400	2 540		0.85	
25 700	15 300	13.8	0.53	
5 750	3 450		1.24	1.16
29 100	17 800	14.0	0.75	
6 550	4 000		1.70	
32 500	20 400	14.1	0.85	
7 350	4 600		2.01	1.88
35 000	23 200	14.4	0.97	
7 900	5 200		2.32	
			2.24	2.07
43 500	29 200	14.3	1.26	
9 750	6 550		3.09	
			2.99	2.88
52 500	36 000	14.3	1.62	
11 800	8 150		3.84	
			3.72	3.58
57 500	40 000	14.4	2.07	
12 900	9 000		4.66	
62 000	44 000	14.5	2.19	
14 000	9 900		5.28	
			5.12	4.79

## Ball bearings Adapter type



Shaft dia. mm inch	Bearing number <sup>1) 2)</sup>	Nominal dimensions										
		mm					inch					
		$d$	$D$	$B$	$C$	$d_4$	$d_1$	$B_1$	$B_2$	$d_2$	$C_a$	$B_3$
<b>65</b> $2\frac{7}{16}$ $2\frac{1}{2}$	<b>UKX15D1;H2315X</b> <b>UKX15D1;HA2315</b> <b>UKX15D1;HE2315X</b>	75	140	45	35	98.1	65	73	15	98	8.0	13.0
		2.9528	5.5118	1.7717	1.3780	3.862	$2\frac{7}{16}$ $2\frac{1}{2}$	2.874	0.591	3.858	0.315	0.512
<b>70</b> $2\frac{11}{16}$ $2\frac{3}{4}$	<b>UKX16D1;H2316X</b> <b>UKX16D1;HA2316</b> <b>UKX16D1;HE2316X</b>	80	150	46	36	106.4	70	78	17	105	7.9	15.0
		3.1496	5.9055	1.8110	1.4173	4.189	$2\frac{11}{16}$ $2\frac{3}{4}$	3.071	0.669	4.134	0.311	0.591
<b>75</b> $2\frac{15}{16}$ <b>3</b>	<b>UKX17D1;H2317X</b> <b>UKX17D1;HA2317X</b> <b>UKX17D1;HE2317X</b>	85	160	47	37	111.6	75	82	18	110	8.7	17.0
		3.3465	6.2992	1.8504	1.4567	4.394	$2\frac{15}{16}$ <b>3</b>	3.228	0.709	4.331	0.343	0.669
<b>80</b> $3\frac{3}{16}$	<b>UKX18D1;H2318X</b> <b>UKX18D1;HA2318X</b>	90	170	49	39	118.2	80	86	18	120	9.0	19.0
		3.5433	6.6929	1.9291	1.5354	4.654	$3\frac{3}{16}$	3.386	0.709	4.724	0.354	0.748
<b>90</b>	<b>UKX20D1;H2320X</b>	100	190	57	44	131.3	90	97	20	130	10.7	20.0

Remarks: 1) Adapter number with suffix "X" means a narrow slot type adapter sleeve.

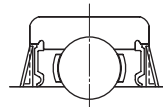
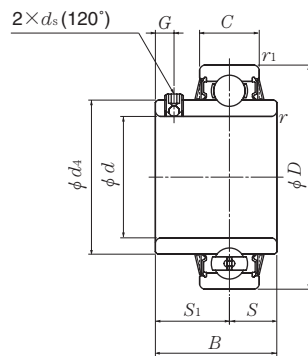
In this case the lock washer with the straight inner prong should be used.

2) For HE2311XY, screw thread pitch different from the standard is applied, because of the thin thread section of sleeve. To distinguish it, a suffix "Y" is added.

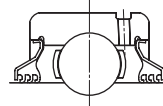
3) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor <sup>3)</sup> $f_0$	Mass (approx.)	
N dynamic $C_r$	lbf static $C_{or}$		kg	lb
72 500	53 000	14.6	3.25	7.47
16 300	11 900		7.27	
83 500	64 000	14.7	3.87	8.79
18 700	14 300		8.56	
96 000	71 500	14.5	4.53	10.6
21 600	16 100		10.3	
109 000	82 000	14.4	5.17	11.2
24 500	18 400			
133 000	105 000	14.4	7.39	

**Ball bearings  
Set screw type**



Standard : Seal + Slinger

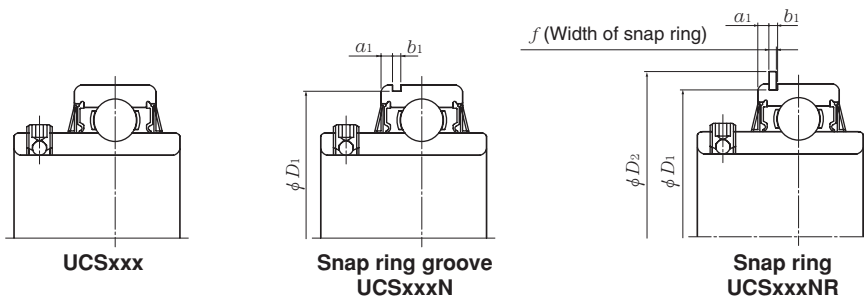


Triple Sealed  
UCSxxxD1LLJ  
Example : UCS205LD1LLJ

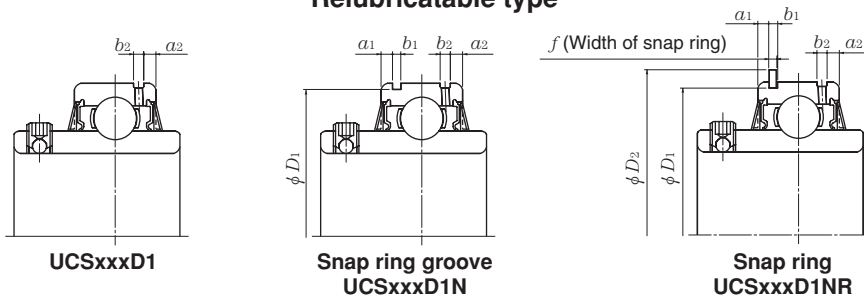
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions									
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	mm <i>r<sub>s</sub></i> min.	inch <i>r<sub>1s</sub></i> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
12 1/2	UCS201LD1N	12	47	31	17	0.6	0.6	12.7	18.3	4.5	M5×0.8
	UCS201-008LD1N	0.5000	1.8504	1.2205	0.6693	0.024	0.024	0.500	0.720	0.177	No.10-32UNF
15 9/16 5/8	UCS202LD1N	15	47	31	17	0.6	0.6	12.7	18.3	4.5	M5×0.8
	UCS202-009LD1N	0.5625	1.8504	1.2205	0.6693	0.024	0.024	0.500	0.720	0.177	No.10-32UNF
	UCS202-010LD1N	0.6250									
17 11/16	UCS203LD1N	17	47	31	17	0.6	0.6	12.7	18.3	4.5	M5×0.8
	UCS203-011LD1N	0.6875	1.8504	1.2205	0.6693	0.024	0.024	0.500	0.720	0.177	No.10-32UNF
20 3/4	UCS204LD1N	20	47	31	17	1	0.6	12.7	18.3	4.5	M5×0.8
	UCS204-012LD1N	0.7500	1.8504	1.2205	0.6693	0.039	0.024	0.500	0.720	0.177	No.10-32UNF
25 13/16 7/8 15/16 1	UCS205LD1N	25	52	34.1	17	1	0.6	14.3	19.8	5	M5×0.8
	UCS205-013LD1N	0.8125	2.0472	1.3425	0.6693	0.039	0.024	0.563	0.780	0.197	No.10-32UNF
	UCS205-014LD1N	0.8750									
	UCS205-015LD1N	0.9375									
UCS205-100LD1N	1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	UCS206LD1N	30	62	38.1	19	1	1	15.9	22.2	5	M6×0.75
	UCS206-101LD1N	1.0625	2.4409	1.5000	0.7480	0.039	0.039	0.626	0.874	0.197	1/4-28UNF
	UCS206-102LD1N	1.1250									
	UCS206-103LD1N	1.1875									
	UCS206-104LD1N	1.2500									
UCS207LD1N	35	72									
1 1/4 1 5/16 1 3/8 1 7/16	UCS207-104LD1N	1.2500	2.8346	1.6890	0.7874	0.059	0.059	0.689	1.000	0.236	1/4-28UNF
	UCS207-105LD1N	1.3125									
	UCS207-106LD1N	1.3750									
	UCS207-107LD1N	1.4375									
40 1 1/2 1 9/16	UCS208LD1N	40	80	49.2	21	1.5	1.5	19	30.2	8	M8×1
	UCS208-108LD1N	1.5000	3.1496	1.9370	0.8268	0.059	0.059	0.748	1.189	0.315	5/16-24UNF
	UCS208-109LD1N	1.5625									

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type

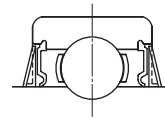
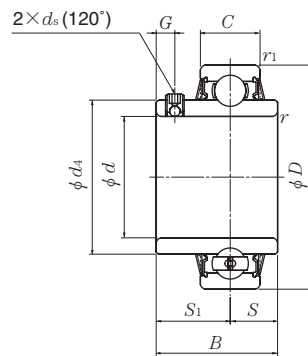


Relubricatable type

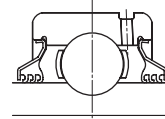


Nominal dimensions								Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)
$d_4$	$D_1$	$f$	mm	inch	$a_2$	$b_2$	$D_{2max}$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
29.6	44.6	1.07	3.1	1.5	2.9	3.0	52.7	12 800	6 650	13.2	0.21
1.1654	1.756	0.042	0.122	0.059	0.114	0.118	2.075	2 890	1 500		0.46
29.6	44.6	1.07	3.1	1.5	2.9	3.0	52.7	12 800	6 650	13.2	0.20
1.1654	1.756	0.042	0.122	0.059	0.114	0.118	2.075	2 890	1 500		0.44
29.6	44.6	1.07	3.1	1.5	2.9	3.0	52.7	12 800	6 650	13.2	0.18
1.1654	1.756	0.042	0.122	0.059	0.114	0.118	2.075	2 890	1 500		0.39
29.6	44.6	1.07	3.1	1.5	2.9	3.0	52.7	12 800	6 650	13.2	0.17
1.1654	1.756	0.042	0.122	0.059	0.114	0.118	2.075	2 890	1 500		0.39
33.9	49.73	1.07	3.2	1.5	3.0	3.0	57.9	14 000	7 850	13.9	0.20
											0.53
1.3346	1.958	0.042	0.126	0.059	0.118	0.118	2.280	3 150	1 770		0.51
											0.46
											0.44
40.8	59.61	1.65	3.2	2.05	3.2	3.0	67.7	19 500	11 300	13.8	0.34
											0.82
1.6063	2.374	0.065	0.126	0.081	0.126	0.118	2.665	4 400	2 540		0.77
											0.73
											0.66
46.8	68.81	1.65	3.3	2.05	3.5	3.5	78.6	25 700	15 300	13.8	0.48
											1.21
1.8425	2.709	0.065	0.130	0.081	0.138	0.138	3.094	5 750	3 450		1.15
											1.08
											1.01
53	76.81	1.65	3.4	2.05	3.5	3.5	86.6	29 100	17 800	14.0	0.64
											1.52
2.0866	3.024	0.065	0.134	0.081	0.138	0.138	3.409	6 550	4 000		1.46

**Ball bearings  
Set screw type**



Standard : Seal + Slinger

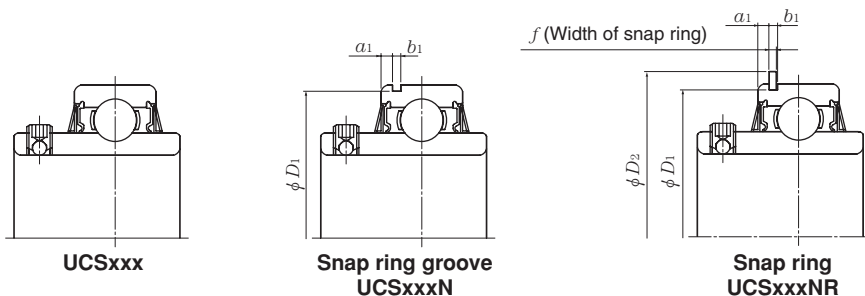


Triple Sealed  
UCSxxxD1LLJ  
Example : UCS205LD1LLJ

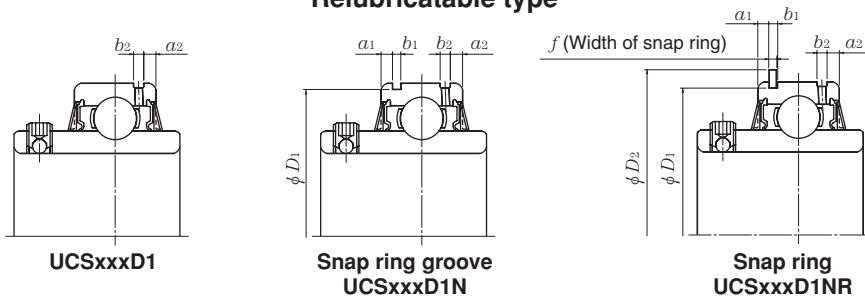
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions									
		d	D	B	C	mm r <sub>s</sub> min.	inch r <sub>1s</sub> min.	S	S <sub>1</sub>	G	ds
45 1 5/8 1 11/16 1 3/4	UCS209LD1N	45	85	49.2	22	1.5	1.5	19	30.2	8	M8×1
	UCS209-110LD1N	1.6250									
	UCS209-111LD1N	1.6875	3.3465	1.9370	0.8661	0.059	0.059	0.748	1.189	0.315	5/16-24UNF
	UCS209-112LD1N	1.7500									
50 1 13/16 1 7/8 1 15/16 2	UCS210LD1N	50	90	51.6	24	1.5	1.5	19	32.6	9	M8×1
	UCS210-113LD1N	1.8125									
	UCS210-114LD1N	1.8750	3.5433	2.0315	0.9449	0.059	0.059	0.748	1.283	0.354	5/16-24UNF
	UCS210-115LD1N	1.9375									
55 2 2 1/16 2 1/8 2 3/16	UCS211LD1N	55	100	55.6	25	2	2	22.2	33.4	9	M8×1
	UCS211-200LD1N	2.0000									
	UCS211-201LD1N	2.0625	3.9370	2.1890	0.9843	0.079	0.079	0.874	1.315	0.354	5/16-24UNF
	UCS211-202LD1N	2.1250									
60 2 1/4 2 5/16 2 3/8 2 7/16	UCS212LD1N	60	110	65.1	27	2	2	25.4	39.7	10	M10×1.25
	UCS212-204LD1N	2.2500									
	UCS212-205LD1N	2.3125	4.3307	2.5630	1.0630	0.079	0.079	1.000	1.563	0.394	3/8-24UNF
	UCS212-206LD1N	2.3750									
65 2 1/2 2 9/16	UCS213D1	65	120	65.1	32	2	2	25.4	39.7	10	M10×1.25
	UCS213-208D1	2.5000	4.7244	2.5630	1.2598	0.079	0.079	1.000	1.563	0.394	3/8-24UNF
	UCS213-209D1	2.5625									
70	UCS214D1	70	125	74.6	33	2	2	30.2	44.4	12	M10×1.25
75	UCS215D1	75	130	77.8	34	2	2	33.3	44.5	12	M10×1.25
80	UCS216D1	80	140	82.6	35	2.5	2.5	33.3	49.3	12	M10×1.25
85	UCS217D1	85	150	85.7	36	2.5	2.5	34.1	51.6	12	M12×1.5
90	UCS218D1	90	160	96	37	2.5	2.5	39.7	56.3	12	M12×1.5

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the f<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type



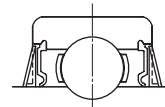
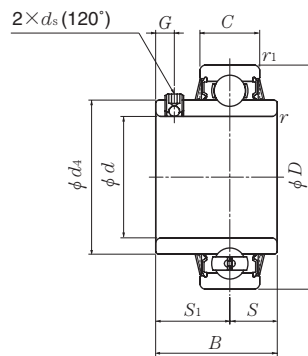
Relubricatable type



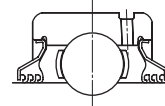
Nominal dimensions								Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
$d_4$	$D_1$	$f$	mm	inch	$a_2$	$b_2$	$D_{2max}$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb	
57.5	81.81	1.65	3.5	2.05	3.6	3.5	91.6	32 500	20 400	14.1	0.70 1.76	
2.2638	3.221	0.065	0.138	0.081	0.142	0.138	3.606	7 350	4 600		1.68 1.57	
62.4	86.79	2.41	3.7	2.85	4.1	3.5	96.5	35 000	23 200	14.4	0.78 2.03	
2.4567	3.417	0.095	0.146	0.112	0.161	0.138	3.799	7 900	5 200		1.92 1.81 1.69	
69	96.80	2.41	4.4	2.85	4.4	3.5	106.5	43 500	29 200	14.3	1.06	
2.7165	3.811	0.095	0.173	0.112	0.173	0.138	4.193	2.71	6 550		14.3	2.60
								9 750				
2.46	2.34											
77	106.81	2.41	4.4	2.85	4.4	3.5	116.6	52 500	36 000	14.3	1.48 3.78	
3.0315	4.205	0.095	0.173	0.112	0.173	0.138	4.591	11 800	8 150		3.62 3.45 3.29	
82.5	—	—	—	—	—	—	—	57 500	40 000	14.4	1.88 4.41	
3.2480	—	—	—	—	—	—	—	12 900	9 000		4.24	
87	—	—	—	—	—	—	—	62 000	44 000	14.5	2.17	
93	—	—	—	—	—	—	—	66 000	49 500	14.7	2.43	
98.1	—	—	—	—	—	—	—	72 500	53 000	14.6	2.89	
106.4	—	—	—	—	—	—	—	83 500	64 000	14.7	3.47	
111.6	—	—	—	—	—	—	—	96 000	71 500	14.5	4.24	



**Ball bearings  
Set screw type**



Standard : Seal + Slinger

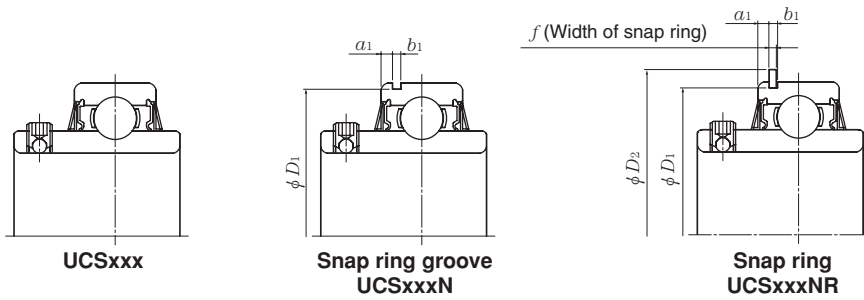


Triple Sealed  
UCSxxxD1LLJ  
Example : UCS305D1LLJ

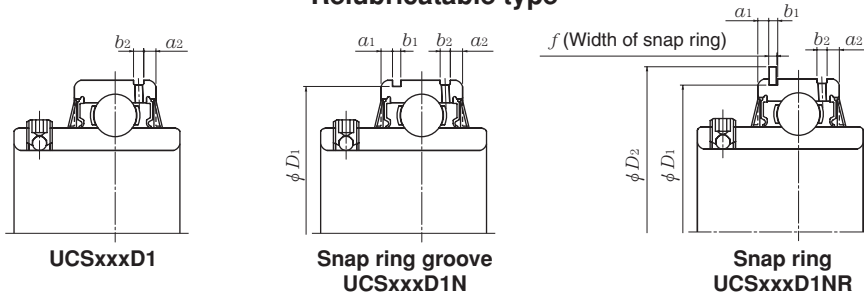
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions									
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	mm <i>r<sub>s</sub></i> min.	inch <i>r<sub>1s</sub></i> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
<b>25</b>	<b>UCS305D1</b>	<b>25</b>	<b>62</b>	<b>38</b>	<b>20</b>	<b>1.5</b>	<b>0.6</b>	<b>15</b>	<b>23</b>	<b>6</b>	<b>M6×0.75</b>
<sup>13</sup> / <sub>16</sub>	<b>UCS305-013D1</b>	0.8125									
<sup>7</sup> / <sub>8</sub>	<b>UCS305-014D1</b>	0.8750	2.4409	1.4961	0.7874	0.059	0.024	0.591	0.906	0.236	<sup>1</sup> / <sub>4</sub> -28UNF
<sup>15</sup> / <sub>16</sub>	<b>UCS305-015D1</b>	0.9375									
<b>1</b>	<b>UCS305-100D1</b>	1.0000									
<b>30</b>	<b>UCS306D1</b>	<b>30</b>	<b>72</b>	<b>43</b>	<b>23</b>	<b>1.5</b>	<b>1</b>	<b>17</b>	<b>26</b>	<b>6</b>	<b>M6×0.75</b>
<sup>1</sup> / <sub>16</sub>	<b>UCS306-101D1</b>	1.0625									
<sup>1</sup> / <sub>8</sub>	<b>UCS306-102D1</b>	1.1250	2.8346	1.6929	0.9055	0.059	0.039	0.669	1.024	0.236	<sup>1</sup> / <sub>4</sub> -28UNF
<sup>1</sup> / <sub>16</sub>	<b>UCS306-103D1</b>	1.1875									
<b>35</b>	<b>UCS307D1</b>	<b>35</b>	<b>80</b>	<b>48</b>	<b>25</b>	<b>2</b>	<b>1</b>	<b>19</b>	<b>29</b>	<b>8</b>	<b>M8×1</b>
<sup>1</sup> / <sub>4</sub>	<b>UCS307-104D1</b>	1.2500									
<sup>15</sup> / <sub>16</sub>	<b>UCS307-105D1</b>	1.3125	3.1496	1.8898	0.9843	0.079	0.039	0.748	1.142	0.315	<sup>5</sup> / <sub>16</sub> -24UNF
<sup>1</sup> / <sub>8</sub>	<b>UCS307-106D1</b>	1.3750									
<sup>1</sup> / <sub>16</sub>	<b>UCS307-107D1</b>	1.4375									
<b>40</b>	<b>UCS308D1</b>	<b>40</b>	<b>90</b>	<b>52</b>	<b>27</b>	<b>2</b>	<b>1</b>	<b>19</b>	<b>33</b>	<b>10</b>	<b>M10×1.25</b>
<sup>1</sup> / <sub>2</sub>	<b>UCS308-108D1</b>	1.5000	3.5433	2.0472	1.0630	0.079	0.039	0.748	1.299	0.394	<sup>3</sup> / <sub>8</sub> -24UNF
<sup>15</sup> / <sub>16</sub>	<b>UCS308-109D1</b>	1.5625									
<b>45</b>	<b>UCS309D1</b>	<b>45</b>	<b>100</b>	<b>57</b>	<b>29</b>	<b>2</b>	<b>1</b>	<b>22</b>	<b>35</b>	<b>10</b>	<b>M10×1.25</b>
<sup>5</sup> / <sub>8</sub>	<b>UCS309-110D1</b>	1.6250									
<sup>11</sup> / <sub>16</sub>	<b>UCS309-111D1</b>	1.6875	3.9370	2.2441	1.1417	0.079	0.039	0.866	1.378	0.394	<sup>3</sup> / <sub>8</sub> -24UNF
<sup>1</sup> / <sub>4</sub>	<b>UCS309-112D1</b>	1.7500									
<b>50</b>	<b>UCS310D1</b>	<b>50</b>	<b>110</b>	<b>61</b>	<b>32</b>	<b>2.5</b>	<b>1.5</b>	<b>22</b>	<b>39</b>	<b>12</b>	<b>M12×1.5</b>
<sup>13</sup> / <sub>16</sub>	<b>UCS310-113D1</b>	1.8125									
<sup>1</sup> / <sub>8</sub>	<b>UCS310-114D1</b>	1.8750	4.3307	2.4016	1.2598	0.098	0.059	0.866	1.535	0.472	<sup>1</sup> / <sub>2</sub> -20UNF
<sup>15</sup> / <sub>16</sub>	<b>UCS310-115D1</b>	1.9375									

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type

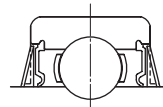
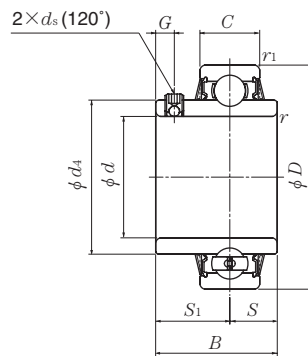


Relubricatable type

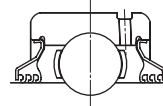


Nominal dimensions								Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
		mm		inch				N dynamic	lbf static	$f_0$	kg	lb
$d_4$	$f$	$a_1$	$b_1$	$a_2$	$b_2$	$D_{2\max}$	$D_1$	$C_r$	$C_{or}$			
36.8	1.65	3.5	2.05	2.60	3.5	67.7	59.61	21 200	10 900	12.6	0.37	0.94
1.4488	0.065	0.138	0.081	0.102	0.138	2.665	2.347	4 750	2 460		0.90	0.83
44.9	1.65	3.7	2.05	3.4	3.5	78.6	68.81	26 700	15 000	13.3	0.58	1.39
1.7677	0.065	0.146	0.081	0.134	0.138	3.094	2.709	6 000	3 400		1.33	1.28
49.4	1.65	3.7	2.05	3.6	3.5	86.6	76.81	33 500	19 100	13.1	0.74	1.77
1.9449	0.065	0.146	0.081	0.142	0.138	3.409	3.024	7 500	4 300		1.70	1.64
56	2.41	4.0	2.85	3.8	3.5	96.5	86.79	40 500	24 000	13.2	1.00	2.32
2.2047	0.095	0.157	0.112	0.150	0.138	3.799	3.417	9 150	5 400		2.23	
63.5	2.41	4.5	2.85	4.2	3.5	106.5	96.8	53 000	32 000	13.1	1.33	3.17
2.5000	0.095	0.177	0.112	0.165	0.138	4.193	3.811	11 900	7 200		3.09	2.98
70.6	2.41	4.5	2.85	4.3	4.0	116.6	106.81	62 000	38 500	13.2	1.72	4.10
2.7795	0.095	0.177	0.112	0.169	0.157	4.591	4.205	13 900	8 600		3.99	3.85

**Ball bearings**  
**Set screw type**



Standard : Seal + Slinger

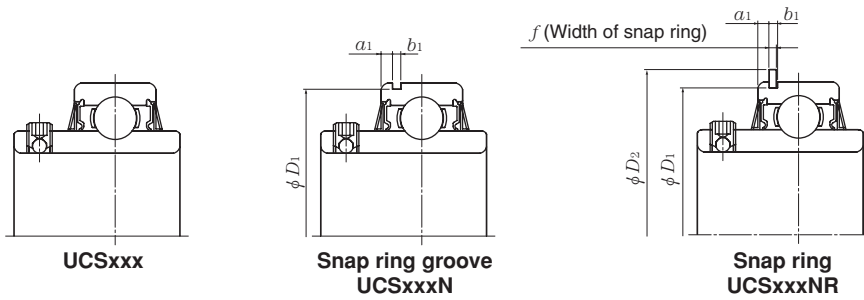


Triple Sealed  
UCSxxxD1LLJ  
Example : UCS305D1LLJ

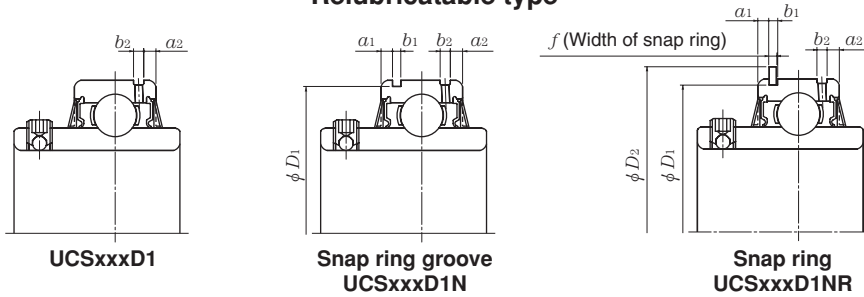
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions									
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	mm <i>r<sub>s</sub></i> min.	inch <i>r<sub>1s</sub></i> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
55 2 2 1/16 2 1/8 2 3/16	UCS311D1	55	120	66	34	2.5	1.5	25	41	12	M12×1.5
	UCS311-200D1	2.0000									
	UCS311-201D1	2.0625	4.7244	2.5984	1.3386	0.098	0.059	0.984	1.614	0.472	1/2-20UNF
	UCS311-202D1	2.1250									
	UCS311-203D1	2.1875									
60 2 1/4 2 5/16 2 3/8 2 7/16	UCS312D1	60	130	71	36	2.5	1.5	26	45	12	M12×1.5
	UCS312-204D1	2.2500									
	UCS312-205D1	2.3125	5.1181	2.7953	1.4173	0.098	0.059	1.024	1.772	0.472	1/2-20UNF
	UCS312-206D1	2.3750									
	UCS312-207D1	2.4375									
65 2 1/2 2 9/16	UCS313D1	65	140	75	39	2.5	2	30	45	12	M12×1.5
	UCS313-208D1	2.5000	5.5118	2.9528	1.5354	0.098	0.079	1.181	1.772	0.472	1/2-20UNF
	UCS313-209D1	2.5625									
70 2 5/8 2 11/16 2 3/4	UCS314D1	70	150	78	41	2.5	2	33	45	12	M12×1.5
	UCS314-210D1	2.6250									
	UCS314-211D1	2.6875	5.9055	3.0709	1.6142	0.098	0.079	1.299	1.772	0.472	1/2-20UNF
	UCS314-212D1	2.7500									
75 2 13/16 2 7/8 2 15/16 3	UCS315D1	75	160	82	43	2.5	2	32	50	14	M14×1.5
	UCS315-213D1	2.8125									
	UCS315-214D1	2.8750	6.2992	3.2283	1.6929	0.098	0.079	1.260	1.969	0.551	9/16-18UNF
	UCS315-215D1	2.9375									
	UCS315-300D1	3.0000									
80 3 1/16 3 1/8 3 3/16	UCS316D1	80	170	86	45	2.5	2	34	52	14	M14×1.5
	UCS316-301D1	3.0625									
	UCS316-302D1	3.1250	6.6929	3.3858	1.7717	0.098	0.079	1.339	2.047	0.551	9/16-18UNF
	UCS316-303D1	3.1875									

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type

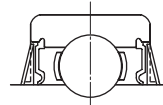
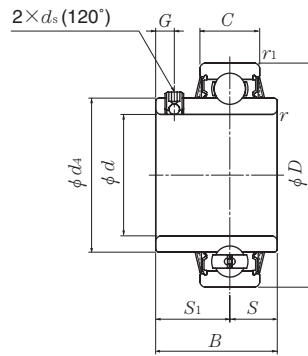


Relubricatable type

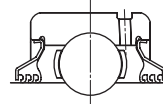


Nominal dimensions								Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)		
		mm		inch				N dynamic	lbf static	f <sub>0</sub>	kg	lb	
d <sub>4</sub>	f	a <sub>1</sub>	b <sub>1</sub>	a <sub>2</sub>	b <sub>2</sub>	D <sub>2max</sub>	D <sub>1</sub>	C <sub>r</sub>	C <sub>or</sub>				
76.6	2.77	4.5	3.25	4.5	4.0	129.7	115.21	71 500	45 000	13.2	2.15	5.14	
3.0157	0.109	0.177	0.128	0.177	0.157	5.106	4.536	16 100	10 100		4.99	4.85	4.68
82.7	2.77	4.5	3.25	4.7	4.0	139.7	125.22	82 000	52 000		13.2	2.70	6.27
3.2559	0.109	0.177	0.128	0.185	0.157	5.500	4.930	18 400	11 700	6.10		5.89	5.72
88.2	2.77	5.0	3.25	5.5	4.0	149.7	135.23	92 500	60 000	13.2		3.37	7.63
3.4724	0.109	0.197	0.128	0.217	0.157	5.894	5.324	20 800	13 400		7.41		
94.8	2.77	5.0	3.25	5.5	4.0	159.7	145.24	104 000	68 000		13.2	4.03	9.37
3.7323	0.109	0.197	0.128	0.217	0.157	6.287	5.718	23 400	15 300	9.13		8.91	
101.3	2.77	5.0	3.25	5.7	4.0	169.7	155.22	113 000	77 000	13.2		4.88	11.4
3.9882	0.109	0.197	0.128	0.224	0.157	6.681	6.111	25 500	17 400		10.9	10.6	
107.9	3.05	5.5	3.65	5.8	4.0	182.9	163.65	123 000	86 500		13.3	5.74	13.0
4.2480	0.120	0.217	0.144	0.228	0.157	7.201	6.443	27 600	19 500	12.7		12.5	

**Ball bearings  
Set screw type**



Standard : Seal + Slinger

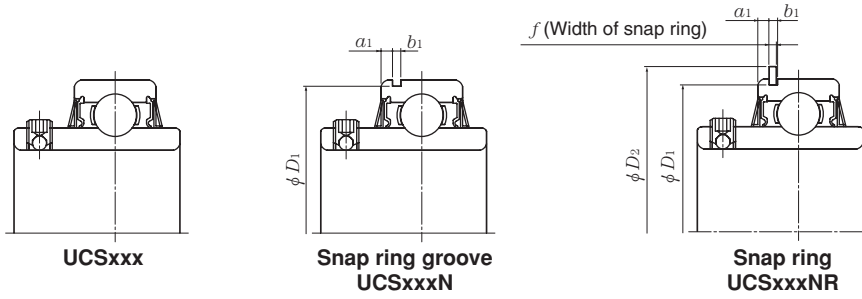


Triple Sealed  
UCSxxxD1LLJ  
Example : UCS305D1LLJ

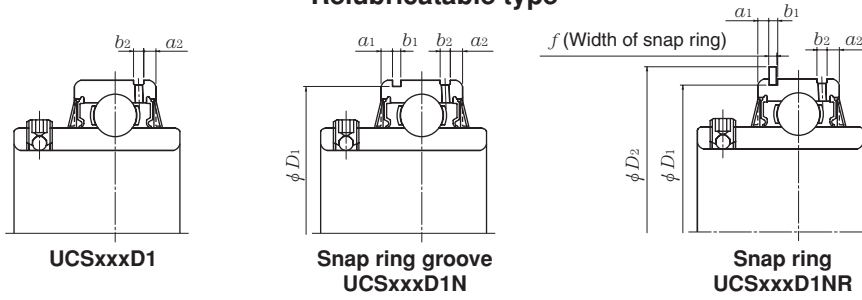
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions									
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	mm <i>r<sub>s</sub></i> min.	inch <i>r<sub>1s</sub></i> min.	<i>S</i>	<i>S<sub>1</sub></i>	<i>G</i>	<i>ds</i>
<b>85</b>	<b>UCS317D1</b>	<b>85</b>	<b>180</b>	<b>96</b>	<b>47</b>	<b>3</b>	<b>2.5</b>	<b>40</b>	<b>56</b>	<b>16</b>	<b>M16×1.5</b>
<b>3¼</b>	<b>UCS317-304D1</b>	3.2500									
<b>3⅝</b>	<b>UCS317-305D1</b>	3.3125	7.0866	3.7795	1.8504	0.118	0.098	1.575	2.205	0.630	⅝-18UNF
<b>3⅞</b>	<b>UCS317-307D1</b>	3.4375									
<b>90</b>	<b>UCS318D1</b>	<b>90</b>	<b>190</b>	<b>96</b>	<b>49</b>	<b>3</b>	<b>2.5</b>	<b>40</b>	<b>56</b>	<b>16</b>	<b>M16×1.5</b>
<b>3⅞</b>	<b>UCS318-307D1</b>	3.4375									
<b>3½</b>	<b>UCS318-308D1</b>	3.5000	7.4803	3.7795	1.9291	0.118	0.098	1.575	2.205	0.630	⅝-18UNF

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type

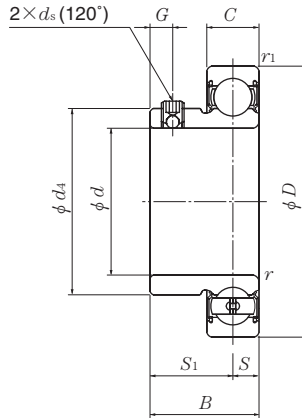


Relubricatable type



Nominal dimensions								Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
$d_4$	$f$	mm		inch		$D_{2\max}$	$D_1$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb	
		$a_1$	$b_1$	$a_2$	$b_2$						kg	lb
114.4	3.05	6.0	3.65	6.2	4.0	192.9	173.66	133 000	97 000	13.3	6.88	15.7
4.5039	0.120	0.236	0.144	0.244	0.157	7.594	6.837	29 800	21 800		15.4	14.7
120.9	3.05	6.0	3.65	6.2	4.5	202.9	183.64	143 000	107 000		13.3	7.80
4.7598	0.120	0.236	0.144	0.244	0.177	7.988	7.230	32 000	24 100	17.4		

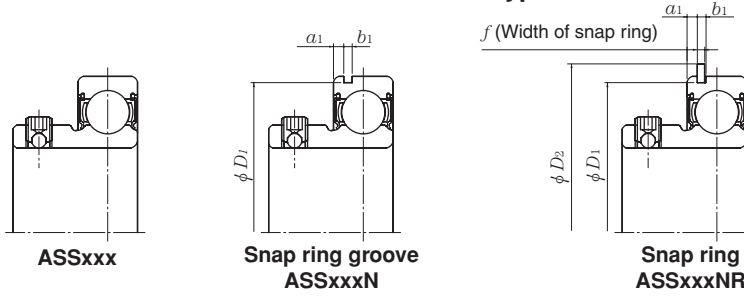
**Ball bearings**  
**Set screw type**



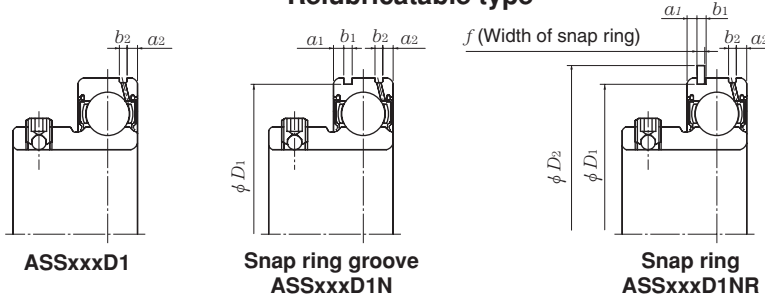
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	mm <i>r<sub>s</sub></i> min. <i>r<sub>1s</sub></i> min.		inch <i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>d<sub>s</sub></i>	<i>d</i> <sub>4</sub>
12 1/2	ASS201N	12	40	22	12	0.6	0.6	6	16	4.2	M5×0.8	24.3
	ASS201-008N	0.5000	1.5748	0.8661	0.4724	0.024	0.024	0.236	0.630	0.165	No.10-32UNF	0.957
15 9/16 5/8	ASS202N	15	40	22	12	0.6	0.6	6	16	4.2	M5×0.8	24.3
	ASS202-009N	0.5625	1.5748	0.8661	0.4724	0.024	0.024	0.236	0.630	0.165	No.10-32UNF	0.957
	ASS202-010N	0.6250										
17 11/16	ASS203N	17	40	22	12	0.6	0.6	6	16	4.2	M5×0.8	24.3
	ASS203-011N	0.6875	1.5748	0.8661	0.4724	0.024	0.024	0.236	0.630	0.165	No.10-32UNF	0.957
20 3/4	ASS204N	20	47	25	14	1	0.6	7	18	4.2	M5×0.8	29.6
	ASS204-012N	0.7500	1.8504	0.9843	0.5512	0.039	0.024	0.276	0.709	0.165	No.10-32UNF	1.165
25 13/16 7/8 15/16 1	ASS205N	25	52	27	15	1	0.6	7.5	19.5	5	M5×0.8	33.9
	ASS205-013N	0.8125	2.0472	1.0630	0.5906	0.039	0.024	0.295	0.768	0.197	No.10-32UNF	1.335
	ASS205-014N	0.8750										
	ASS205-015N	0.9375										
ASS205-100N	1.0000											
30 1 1/16 1 1/8 1 3/16 1 1/4	ASS206N	30	62	29	16	1	0.6	8	21	5	M6×0.75	40.8
	ASS206-101N	1.0625	2.4409	1.1417	0.6299	0.039	0.024	0.315	0.827	0.197	1/4-28UNF	1.606
	ASS206-102N	1.1250										
	ASS206-103N	1.1875										
ASS206-104N	1.2500											
35 1 1/4 1 5/16 1 3/8 1 7/16	ASS207N	35	72	34	17	1.5	0.6	8.5	25.5	6	M6×0.75	46.8
	ASS207-104N	1.2500	2.8346	1.3386	0.6693	0.059	0.024	0.335	1.004	0.236	1/4-28UNF	1.843
	ASS207-105N	1.3125										
	ASS207-106N	1.3750										
ASS207-107N	1.4375											
40 1 1/2 1 9/16	ASS208N	40	80	38	18	1.5	0.6	9	29	8	M8×1	53
	ASS208-108N	1.5000	3.1496	1.4961	0.7087	0.059	0.024	0.354	1.142	0.315	5/16-24UNF	2.087
	ASS208-109N	1.5625										

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type



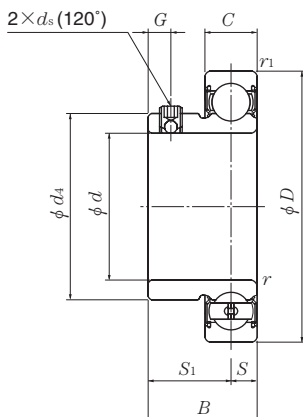
Relubricatable type



Nominal dimensions							Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)			
$D_1$	$a_1$	mm		inch		$a_2$	$b_2$	$D_{2max}$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb	
		$b_1$	$f$	$a_2$	$b_2$							kg	lb
38.1	1.98	1.5	1.07	1.9	2.0	44.6		44.6	9 600	4 600	12.8	0.12	
1.500	0.078	0.059	0.042	0.075	0.079	1.756		1.756	2 160	1 030		0.24	
38.1	1.98	1.5	1.07	1.9	2.0	44.6		44.6	9 600	4 600	12.8	0.11	
1.500	0.078	0.059	0.042	0.075	0.079	1.756		1.756	2 160	1 030		0.23	0.22
38.1	1.98	1.5	1.07	1.9	2.0	44.6		44.6	9 600	4 600	12.8	0.10	
1.500	0.078	0.059	0.042	0.075	0.079	1.756		1.756	2 160	1 030		0.20	
44.6	2.38	1.5	1.07	2.1	2.0	52.7		52.7	12 800	6 650	13.2	0.17	
1.756	0.094	0.059	0.042	0.083	0.079	2.075		2.075	2 890	1 500		0.33	
49.73	2.38	1.5	1.07	2.6	2.0	57.9		57.9	14 000	7 850	13.9	0.17	
												0.46	
1.958	0.094	0.059	0.042	0.102	0.079	2.280		2.280	3 150	1 770		0.44	
												0.42	
												0.39	
59.61	3.18	2.05	1.65	2.1	2.5	67.7		67.7	19 500	11 300	13.8	0.31	
												0.67	
2.347	0.125	0.081	0.065	0.083	0.098	2.665		2.665	4 400	2 540		0.65	
												0.63	
												0.61	
68.81	3.18	2.05	1.65	2.1	3.0	78.6		78.6	25 700	15 300	13.8	0.49	
												1.18	
2.709	0.125	0.081	0.065	0.083	0.118	3.094		3.094	5 750	3 450		1.05	
												0.93	
												0.81	
76.81	3.18	2.05	1.65	2.3	3.0	86.6		86.6	29 100	17 800	14.0	0.50	
												1.15	
3.024	0.125	0.081	0.065	0.091	0.118	3.409		3.409	6 550	4 000		1.06	



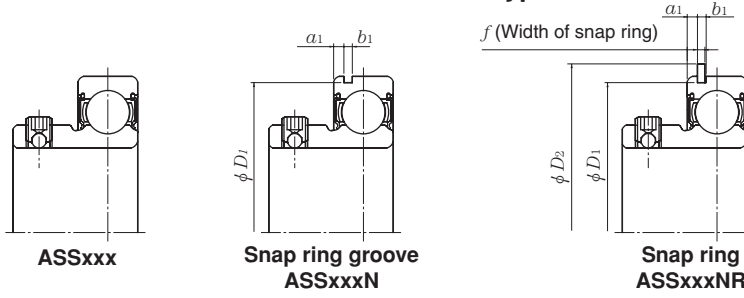
**Ball bearings**  
**Set screw type**



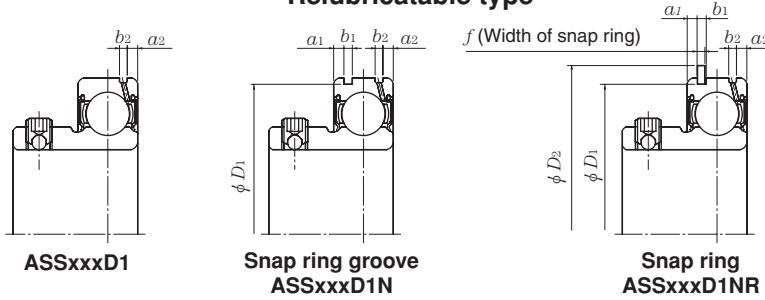
Shaft dia.	Bearing number <sup>1)</sup>	Nominal dimensions										
		$d$	$D$	$B$	$C$	$r_s$ mm min.	$r_{1s}$ mm min.	inch $S$	$S_1$	$G$	$ds$	$d_4$
<b>45</b>	<b>ASS209N</b>	45	85	40	19	1.5	1.5	9.5	30.5	8	M8×1	57.5
$1\frac{5}{8}$	<b>ASS209-110N</b>	1.6250										
$1\frac{11}{16}$	<b>ASS209-111N</b>	1.6875	3.3465	1.5748	0.7480	0.059	0.059	0.374	1.201	0.315	$\frac{5}{16}$ -24UNF	2.264
$1\frac{3}{4}$	<b>ASS209-112N</b>	1.7500										
<b>50</b>	<b>ASS210N</b>	50	90	42	20	1.5	1.5	10	32	9	M8×1	62.4
$1\frac{13}{16}$	<b>ASS210-113N</b>	1.8125										
$1\frac{7}{8}$	<b>ASS210-114N</b>	1.8750	3.5433	1.6535	0.7874	0.059	0.059	0.394	1.260	0.354	$\frac{5}{16}$ -24UNF	2.457
$1\frac{15}{16}$	<b>ASS210-115N</b>	1.9375										
<b>2</b>	<b>ASS210-200N</b>	2.0000										

Remarks: 1) If relubricatable type is needed, please order with suffix "D1".  
2) For inch series bearings, the  $f_0$  factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type

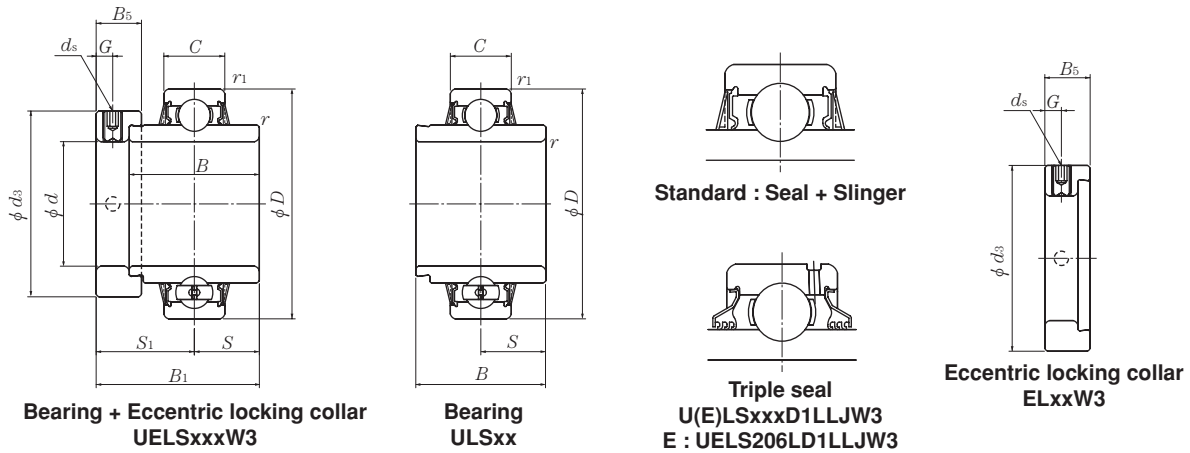


Relubricatable type



Nominal dimensions							Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)			
$D_1$	$a_1$	mm		inch		$a_2$	$b_2$	$D_{2,max}$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb	
		$b_1$	$f$	$a_2$	$b_2$							kg	lb
81.81	3.18	2.05	1.65	2.6	3.0	91.6			32 500	20 400	14.1	0.56	1.41
3.221	0.125	0.081	0.065	0.102	0.118	3.606			7 350	4 600		1.34	1.26
86.79	3.18	2.85	2.41	3.5	3.0	96.5			35 000	23 200		14.4	0.67
3.417	0.125	0.112	0.095	0.138	0.118	3.799			7 900	5 200	1.61		1.52
											1.43		

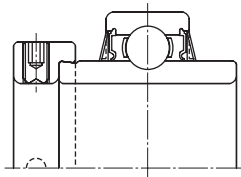
**Ball bearings**  
**Eccentric locking collar type**



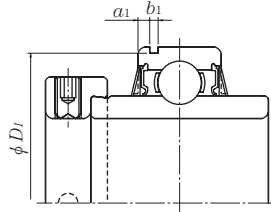
Shaft dia.	Bearing number <sup>1)</sup>	Nominal dimensions									
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> min.	<i>r</i> <sub>1s</sub> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>
<b>20</b>	<b>UELS204LD1NW3</b>	20	47	43.7	34.2	17	1	0.6	17.1	26.6	4.8
$\frac{3}{4}$	<b>UELS204-012LD1NW3</b>	0.7500	1.8504	1.720	1.3465	0.6693	0.039	0.024	0.673	1.047	0.189
<b>25</b>	<b>UELS205LD1NW3</b>	25	52	44.4	34.9	17	1	0.6	17.45	26.95	4.8
$\frac{13}{16}$	<b>UELS205-013LD1NW3</b>	0.8125									
$\frac{7}{8}$	<b>UELS205-014LD1NW3</b>	0.8750	2.0472	1.748	1.3740	0.6693	0.039	0.024	0.687	1.059	0.189
$\frac{15}{16}$	<b>UELS205-015LD1NW3</b>	0.9375									
<b>1</b>	<b>UELS205-100LD1NW3</b>	1.0000									
<b>30</b>	<b>UELS206LD1NW3</b>	30	62	48.4	36.5	19	1	1	18.25	30.15	6
$\frac{1}{16}$	<b>UELS206-101LD1NW3</b>	1.0625									
$\frac{1}{8}$	<b>UELS206-102LD1NW3</b>	1.1250	2.4409	1.906	1.4370	0.7480	0.039	0.039	0.719	1.185	0.236
$\frac{3}{16}$	<b>UELS206-103LD1NW3</b>	1.1875									
$\frac{1}{4}$	<b>UELS206-104LD1NW3</b>	1.2500									
<b>35</b>	<b>UELS207LD1NW3</b>	35	72	51.1	37.6	20	1.5	1.5	18.8	32.3	6.8
$\frac{1}{4}$	<b>UELS207-104LD1NW3</b>	1.2500									
$\frac{5}{16}$	<b>UELS207-105LD1NW3</b>	1.3125	2.8346	2.012	1.4803	0.7874	0.059	0.059	0.740	1.272	0.268
$\frac{3}{8}$	<b>UELS207-106LD1NW3</b>	1.3750									
$\frac{7}{16}$	<b>UELS207-107LD1NW3</b>	1.4375									
<b>40</b>	<b>UELS208LD1NW3</b>	40	80	56.3	42.8	21	1.5	1.5	21.4	34.9	6.8
$\frac{1}{2}$	<b>UELS208-108LD1NW3</b>	1.5000	3.1496	2.217	1.6850	0.8268	0.059	0.059	0.843	1.374	0.268
$\frac{9}{16}$	<b>UELS208-109LD1NW3</b>	1.5625									
<b>45</b>	<b>UELS209LD1NW3</b>	45	85	56.3	42.8	22	1.5	1.5	21.4	34.9	6.8
$\frac{5}{8}$	<b>UELS209-110LD1NW3</b>	1.6250									
$\frac{11}{16}$	<b>UELS209-111LD1NW3</b>	1.6875	3.3465	2.217	1.6850	0.8661	0.059	0.059	0.843	1.374	0.268
$\frac{3}{4}$	<b>UELS209-112LD1NW3</b>	1.7500									

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

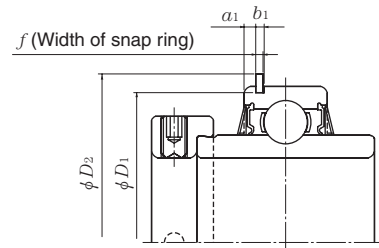
Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

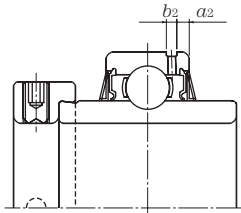


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

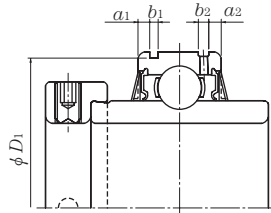


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

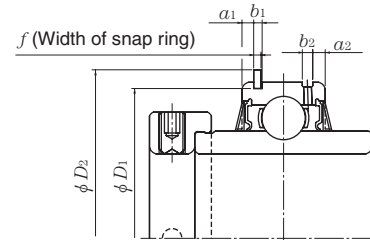
Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



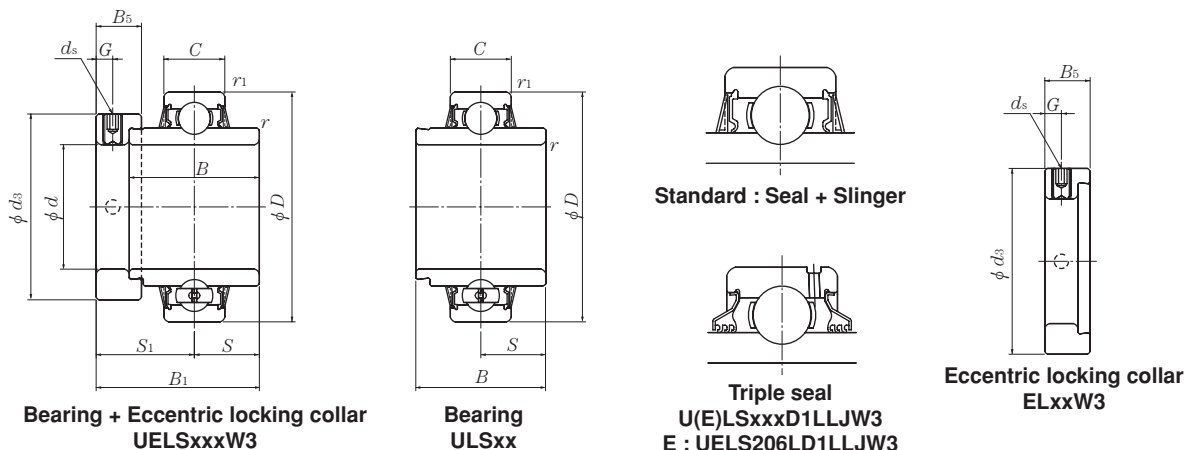
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3



Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

Nominal dimensions											Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)		
ds	d <sub>3</sub>	B <sub>5</sub>	D <sub>1</sub>	mm		inch		f	a <sub>2</sub>	b <sub>2</sub>	D <sub>2max</sub>	N dynamic C <sub>r</sub>	lbf static C <sub>or</sub>	f <sub>0</sub>	kg	lb
				a <sub>1</sub>	b <sub>1</sub>	a <sub>1</sub>	b <sub>1</sub>									
M6×0.75	33	13.5	44.6	3.1	1.5	1.07	2.9	3.0	52.7	12 800	6 650	13.2	0.23	0.45		
¼-28UNF	1.299	0.531	1.756	0.122	0.059	0.042	0.114	0.118	2.075	2 890	1 500		0.27			
M6×0.75	38	13.5	49.73	3.2	1.5	1.07	3.0	3.0	57.9	14 000	7 850	13.9	0.61	0.58		
¼-28UNF	1.496	0.531	1.958	0.126	0.059	0.042	0.118	0.118	2.280	3 150	1 770		0.55			
													0.51			
M8×1	44.5	15.9	59.61	3.2	2.05	1.65	3.2	3.0	67.7	19 500	11 300	13.8	0.41	0.94		
5/16-24UNF	1.752	0.626	2.347	0.126	0.081	0.065	0.126	0.118	2.665	4 400	2 540		0.89			
													0.84			
M10×1.25	55.5	17.5	68.81	3.3	2.05	1.65	3.5	3.5	78.6	25 700	15 300	13.8	0.60	1.45		
¾-24UNF	2.185	0.689	2.709	0.130	0.081	0.065	0.138	0.138	3.094	5 750	3 450		1.40			
													1.35			
M10×1.25	60	18.3	76.81	3.4	2.05	1.65	3.5	3.5	86.6	29 100	17 800	14.0	0.79	1.82		
¾-24UNF	2.362	0.720	3.024	0.134	0.081	0.065	0.138	0.138	3.409	6 550	4 000		1.90			
M10×1.25	63.5	18.3	81.81	3.5	2.05	1.65	3.6	3.5	91.6	32 500	20 400	14.0	0.85	2.05		
¾-24UNF	2.500	0.720	3.221	0.138	0.081	0.065	0.142	0.138	3.606	7 350	4 600		1.97			
													1.88			

**Ball bearings**  
**Eccentric locking collar type**

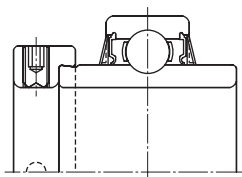


Shaft dia.	Bearing number <sup>1)</sup>	Nominal dimensions									
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> min.	<i>r</i> <sub>1s</sub> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>
mm inch		mm	mm	mm	mm	mm	inch	inch	mm	mm	mm
<b>50</b>	<b>UELS210LD1NW3</b>	50	90	62.7	49.2	24	1.5	1.5	24.6	38.1	6.8
1 13/16	UELS210-113LD1NW3	1.8125									
1 7/8	UELS210-114LD1NW3	1.8750	3.5433	2.469	1.9370	0.9449	0.059	0.059	0.969	1.500	0.268
1 15/16	UELS210-115LD1NW3	1.9375									
2	UELS210-200LD1NW3	2.0000									
<b>55</b>	<b>UELS211LD1NW3</b>	55	100	71.4	55.5	25	2	2	27.75	43.65	8
2	UELS211-200LD1NW3	2.0000									
2 1/16	UELS211-201LD1NW3	2.0625	3.9370	2.811	2.1850	0.9843	0.079	0.079	1.093	1.717	0.315
2 1/8	UELS211-202LD1NW3	2.1250									
2 3/16	UELS211-203LD1NW3	2.1875									
<b>60</b>	<b>UELS212LD1NW3</b>	60	110	77.8	61.9	27	2	2	30.95	46.85	8
2 1/4	UELS212-204LD1NW3	2.2500									
2 5/16	UELS212-205LD1NW3	2.3125	4.3307	3.063	2.4370	1.0630	0.079	0.079	1.219	1.843	0.315
2 3/8	UELS212-206LD1NW3	2.3750									
2 7/16	UELS212-207LD1NW3	2.4375									

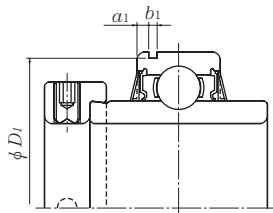
Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

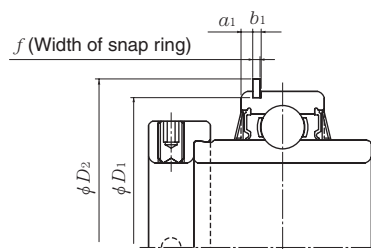
Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar : UELSxxW3

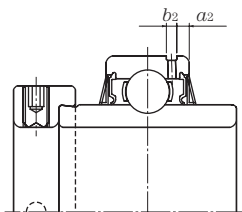


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar : UELSxxNW3

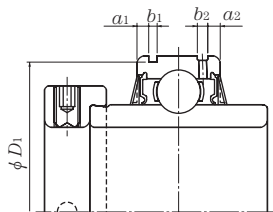


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar : UELSxxNRW3

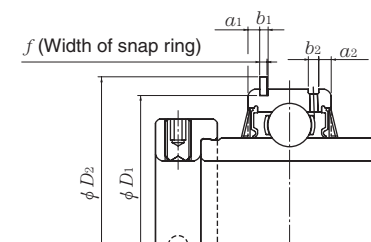
Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar : UELSxxD1W3



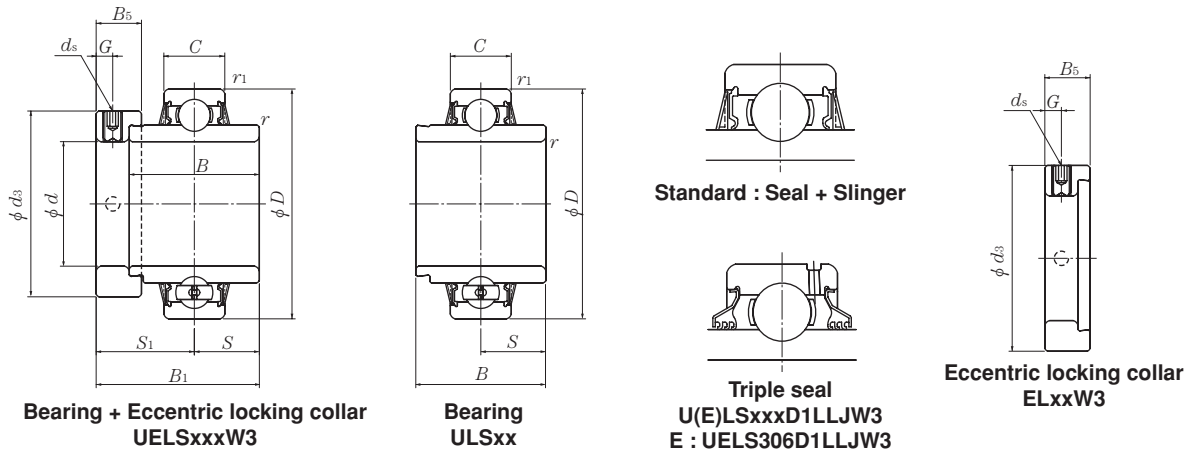
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar : UELSxxD1NW3



Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar : UELS2xxD1NRW3

Nominal dimensions										Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
ds	d <sub>3</sub>	B <sub>5</sub>	D <sub>1</sub>	mm		f	a <sub>2</sub>	b <sub>2</sub>	D <sub>2max</sub>	N dynamic C <sub>r</sub>	lbf static C <sub>or</sub>	f <sub>0</sub>	kg lb	
				a <sub>1</sub>	b <sub>1</sub>								kg	lb
M10×1.25	69.5	18.3	86.79	3.7	2.85	2.41	4.1	3.5	96.5	35 000	23 200	0.98		2.46
3/8-24UNF	2.736	0.720	3.417	0.146	0.112	0.095	0.161	0.138	3.799	7 900	5 200	14.4		2.36 2.25 2.09
M10×1.25	76	20.7	96.80	4.4	2.85	2.41	4.4	3.5	106.5	43 500	29 200	14.3		1.32 3.28
3/8-24UNF	2.992	0.815	3.811	0.173	0.112	0.095	0.173	0.138	4.193	9 750	6 550	14.3		3.12 3.02 2.90
M10×1.25	84	22.3	106.81	4.4	2.85	2.41	4.4	3.5	116.6	52 500	36 000	14.3		1.93 4.50
3/8-24UNF	3.307	0.878	4.205	0.173	0.112	0.095	0.173	0.138	4.591	11 800	8 150	14.3		4.34 4.17 4.00

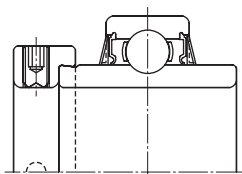
**Ball bearings**  
**Eccentric locking collar type**



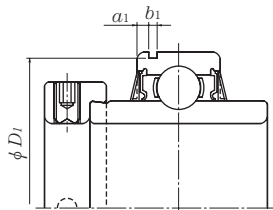
Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm inch	<i>r</i> <sub>1s</sub> mm inch	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
<b>25</b>	<b>UELS305D1W3</b>	<b>25</b>	<b>62</b>	<b>46.8</b>	<b>34.9</b>	<b>20</b>	<b>1.5</b>	<b>0.6</b>	<b>16.7</b>	<b>30.1</b>	<b>6</b>	<b>M8×1</b>
$\frac{13}{16}$	<b>UELS305-013D1W3</b>	0.8125										
$\frac{7}{8}$	<b>UELS305-014D1W3</b>	0.8750	2.4409	1.843	1.3740	0.7874	0.059	0.024	0.657	1.185	0.236	$\frac{5}{16}$ -24UNF
$\frac{15}{16}$	<b>UELS305-015D1W3</b>	0.9375										
<b>1</b>	<b>UELS305-100D1W3</b>	1.0000										
<b>30</b>	<b>UELS306D1W3</b>	<b>30</b>	<b>72</b>	<b>50</b>	<b>36.5</b>	<b>23</b>	<b>1.5</b>	<b>1</b>	<b>17.5</b>	<b>32.5</b>	<b>6.7</b>	<b>M8×1</b>
$\frac{1}{16}$	<b>UELS306-101D1W3</b>	1.0625										
$\frac{1}{8}$	<b>UELS306-102D1W3</b>	1.1250	2.8346	1.969	1.4370	0.9055	0.059	0.039	0.689	1.280	0.264	$\frac{5}{16}$ -24UNF
$\frac{3}{16}$	<b>UELS306-103D1W3</b>	1.1875										
<b>35</b>	<b>UELS307D1W3</b>	<b>35</b>	<b>80</b>	<b>51.6</b>	<b>38.1</b>	<b>25</b>	<b>2</b>	<b>1</b>	<b>18.3</b>	<b>33.3</b>	<b>6.7</b>	<b>M8×1</b>
$\frac{1}{4}$	<b>UELS307-104D1W3</b>	1.2500										
$\frac{5}{16}$	<b>UELS307-105D1W3</b>	1.3125	3.1496	2.031	1.5000	0.9843	0.079	0.039	0.720	1.311	0.264	$\frac{5}{16}$ -24UNF
$\frac{3}{8}$	<b>UELS307-106D1W3</b>	1.3750										
$\frac{7}{16}$	<b>UELS307-107D1W3</b>	1.4375										
<b>40</b>	<b>UELS308D1W3</b>	<b>40</b>	<b>90</b>	<b>57.1</b>	<b>41.3</b>	<b>27</b>	<b>2</b>	<b>1</b>	<b>19.8</b>	<b>37.3</b>	<b>8</b>	<b>M10×1.25</b>
$\frac{1}{2}$	<b>UELS308-108D1W3</b>	1.5000	3.5433	2.248	1.6260	1.0630	0.079	0.039	0.780	1.469	0.315	$\frac{3}{8}$ -24UNF
$\frac{9}{16}$	<b>UELS308-109D1W3</b>	1.5625										
<b>45</b>	<b>UELS309D1W3</b>	<b>45</b>	<b>100</b>	<b>58.7</b>	<b>42.9</b>	<b>29</b>	<b>2</b>	<b>1</b>	<b>19.8</b>	<b>38.9</b>	<b>8</b>	<b>M10×1.25</b>
$\frac{5}{8}$	<b>UELS309-110D1W3</b>	1.6250										
$\frac{11}{16}$	<b>UELS309-111D1W3</b>	1.6875	3.9370	2.311	1.6890	1.1417	0.079	0.039	0.780	1.531	0.315	$\frac{3}{8}$ -24UNF
$\frac{3}{4}$	<b>UELS309-112D1W3</b>	1.7500										

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

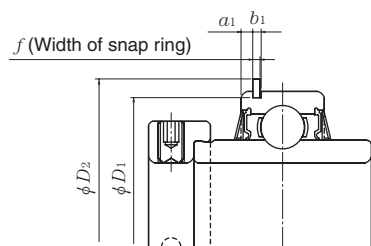
Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar : UELSxxW3

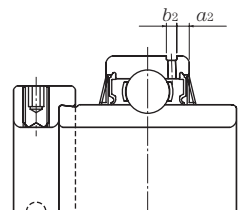


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar : UELSxxNW3

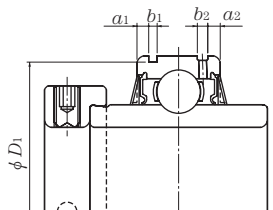


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar : UELSxxNRW3

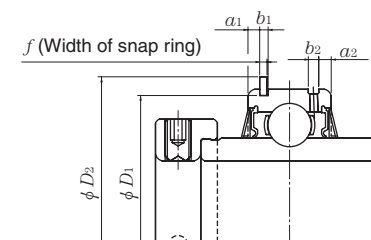
Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar : UELSxxD1W3



Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar : UELSxxD1NW3

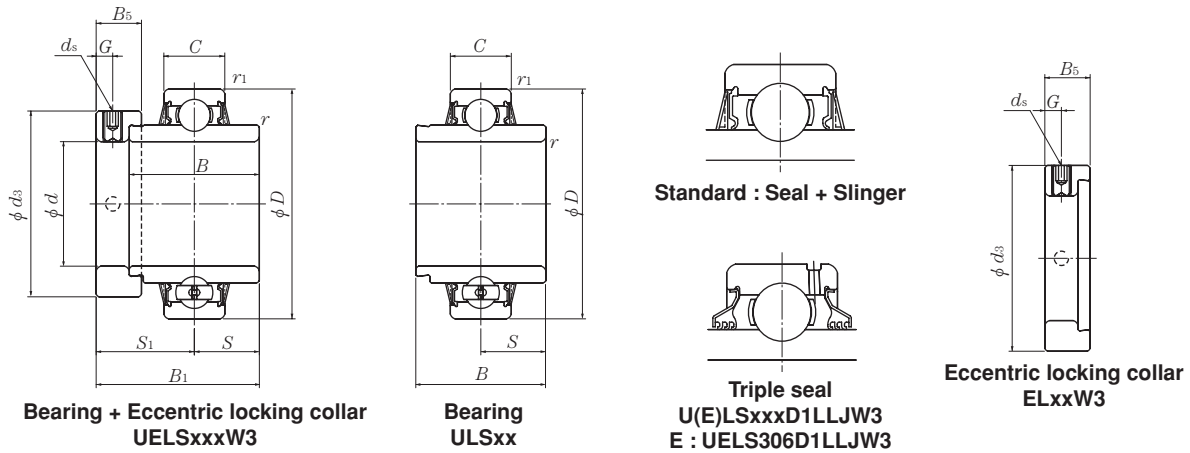


Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar : UELS2xxD1NRW3

Nominal dimensions										Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
$d_3$	$B_5$	$f$	mm		inch		$a_2$	$b_2$	$D_{2max}$	$D_1$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
			$a_1$	$b_1$	$a_2$	$b_2$								
42.8	15.9	1.65	3.5	2.05	2.6	3.5	67.7	59.61	21 200	10 900	12.6	0.45	1.13	
1.685	0.626	0.065	0.138	0.081	0.102	0.138	2.665	2.347	4 750	2 460		1.09	1.05	1.00
50	17.5	1.65	3.7	2.05	3.4	3.5	78.6	68.81	26 700	15 000	13.3	0.71	1.62	
1.969	0.689	0.065	0.146	0.081	0.134	0.138	3.094	2.709	6 000	3 400		1.56	1.50	
55	17.5	1.65	3.7	2.05	3.6	3.5	86.6	76.81	33 500	19 100	13.1	0.83	1.99	
2.165	0.689	0.065	0.146	0.081	0.142	0.138	3.409	3.024	7 500	4 300		1.91	1.84	1.76
63.5	20.6	2.41	4.0	2.85	3.8	3.5	96.5	86.79	40 500	24 000	13.2	1.12	2.67	
2.500	0.811	0.095	0.157	0.112	0.150	0.138	3.799	3.417	9 150	5 400		2.58		
70	20.6	2.41	4.5	2.85	4.2	3.5	106.5	96.80	53 000	32 000	13.1	1.50	3.26	
2.756	0.811	0.095	0.177	0.112	0.165	0.138	4.193	3.811	11 900	7 200		3.37	3.26	



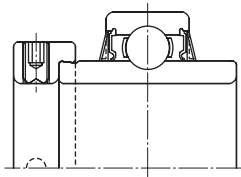
**Ball bearings**  
**Eccentric locking collar type**



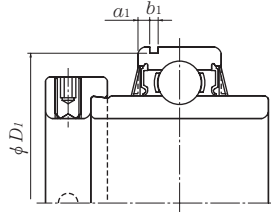
Shaft dia.	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	<i>r</i> <sub>1s</sub> inch min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
<b>50</b>	<b>UELS310D1W3</b>	<b>50</b>	<b>110</b>	<b>66.6</b>	<b>49.2</b>	<b>32</b>	<b>2.5</b>	<b>1.5</b>	<b>24.6</b>	<b>42</b>	<b>8.7</b>	<b>M10×1.25</b>
<b>1<sup>13</sup>/<sub>16</sub></b>	<b>UELS310-113D1W3</b>	1.8125										
<b>1<sup>7</sup>/<sub>8</sub></b>	<b>UELS310-114D1W3</b>	1.8750	4.3307	2.622	1.9370	1.2598	0.098	0.059	0.969	1.654	0.343	<b>3/8-24UNF</b>
<b>1<sup>15</sup>/<sub>16</sub></b>	<b>UELS310-115D1W3</b>	1.9375										
<b>55</b>	<b>UELS311D1W3</b>	<b>55</b>	<b>120</b>	<b>73</b>	<b>55.6</b>	<b>34</b>	<b>2.5</b>	<b>1.5</b>	<b>27.8</b>	<b>45.2</b>	<b>8.7</b>	<b>M10×1.25</b>
<b>2</b>	<b>UELS311-200D1W3</b>	2.0000										
<b>2<sup>1</sup>/<sub>16</sub></b>	<b>UELS311-201D1W3</b>	2.0625	4.7244	2.874	2.1890	1.3386	0.098	0.059	1.094	1.780	0.343	<b>3/8-24UNF</b>
<b>2<sup>1</sup>/<sub>8</sub></b>	<b>UELS311-202D1W3</b>	2.1250										
<b>2<sup>3</sup>/<sub>16</sub></b>	<b>UELS311-203D1W3</b>	2.1875										
<b>60</b>	<b>UELS312D1W3</b>	<b>60</b>	<b>130</b>	<b>79.4</b>	<b>61.9</b>	<b>36</b>	<b>2.5</b>	<b>1.5</b>	<b>30.95</b>	<b>48.45</b>	<b>8.7</b>	<b>M10×1.25</b>
<b>2<sup>1</sup>/<sub>4</sub></b>	<b>UELS312-204D1W3</b>	2.2500										
<b>2<sup>5</sup>/<sub>16</sub></b>	<b>UELS312-205D1W3</b>	2.3125	5.1181	3.126	2.4370	1.4173	0.098	0.059	1.219	1.907	0.343	<b>3/8-24UNF</b>
<b>2<sup>3</sup>/<sub>8</sub></b>	<b>UELS312-206D1W3</b>	2.3750										
<b>2<sup>7</sup>/<sub>16</sub></b>	<b>UELS312-207D1W3</b>	2.4375										
<b>65</b>	<b>UELS313D1W3</b>	<b>65</b>	<b>140</b>	<b>85.7</b>	<b>65.1</b>	<b>39</b>	<b>2.5</b>	<b>2</b>	<b>32.55</b>	<b>53.15</b>	<b>10.3</b>	<b>M12×1.5</b>
<b>2<sup>1</sup>/<sub>2</sub></b>	<b>UELS313-208D1W3</b>	2.5000	5.5118	3.374	2.5630	1.5354	0.098	0.079	1.281	2.093	0.406	<b>1/2-20UNF</b>
<b>2<sup>9</sup>/<sub>16</sub></b>	<b>UELS313-209D1W3</b>	2.5625										
<b>70</b>	<b>UELS314D1W3</b>	<b>70</b>	<b>150</b>	<b>92.1</b>	<b>68.3</b>	<b>41</b>	<b>2.5</b>	<b>2</b>	<b>34.15</b>	<b>57.95</b>	<b>10.3</b>	<b>M12×1.5</b>
<b>2<sup>5</sup>/<sub>8</sub></b>	<b>UELS314-210D1W3</b>	2.6250										
<b>2<sup>11</sup>/<sub>16</sub></b>	<b>UELS314-211D1W3</b>	2.6875	5.9055	3.626	2.6890	1.6142	0.098	0.079	1.344	2.281	0.406	<b>1/2-20UNF</b>
<b>2<sup>3</sup>/<sub>4</sub></b>	<b>UELS314-212D1W3</b>	2.7500										

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

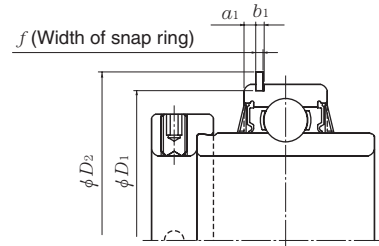
Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar  
: UELSxxW3

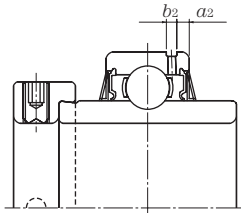


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar  
: UELSxxNW3

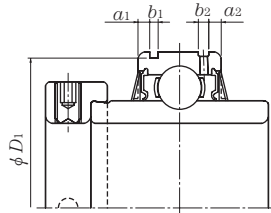


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar  
: UELSxxNRW3

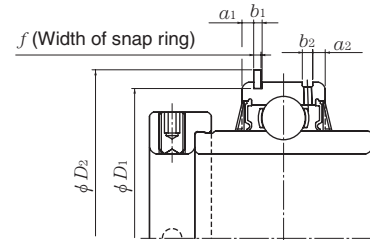
Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar  
: UELSxxD1W3



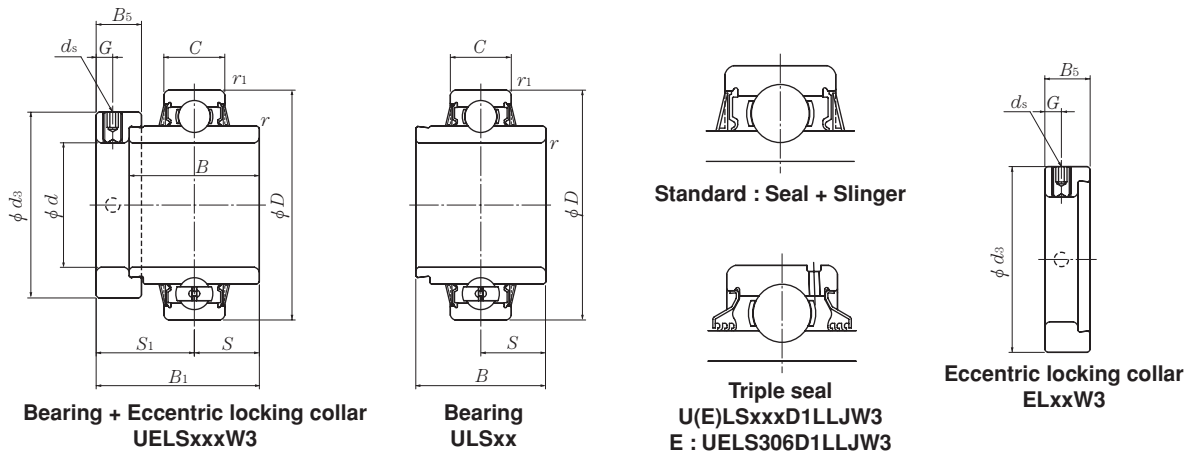
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar  
: UELSxxD1NW3



Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar  
: UELS2xxD1NRW3

Nominal dimensions										Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
$d_3$	$B_5$	$f$	mm		inch		$a_2$	$b_2$	$D_{2max}$	$D_1$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
			$a_1$	$b_1$	$a_2$	$b_2$								
76.2	22.2	2.41	4.5	2.85	4.3	4.0	116.6	106.81	62 000	38 500	13.2	1.93		
3.000	0.874	0.095	0.177	0.112	0.169	0.157	4.591	4.205	13 900	8 600		4.55		
													4.44	
83	22.2	2.77	4.5	3.25	4.5	4.0	129.7	115.21	71 500	45 000	13.2	2.42		
3.268	0.874	0.109	0.177	0.128	0.177	0.157	5.106	4.536	16 100	10 100		5.76		
													5.57	
89	23.9	2.77	4.5	3.25	4.7	4.0	139.7	125.22	82 000	52 000	13.2	3.04		
3.504	0.941	0.109	0.177	0.128	0.185	0.157	5.500	4.930	18 400	11 700		7.01		
													6.86	
97	27	2.77	5.0	3.25	5.5	4.0	149.7	135.23	92 500	60 000	13.2	3.79		
3.819	1.063	0.109	0.197	0.128	0.217	0.157	5.894	5.324	20 800	13 400		8.76		
													8.55	
102	30.2	2.77	5.0	3.25	5.5	4.0	159.7	145.24	104 000	68 000	13.2	4.54		
4.016	1.189	0.109	0.197	0.128	0.217	0.157	6.287	5.718	23 400	15 300		10.7		
													10.5	
													10.2	

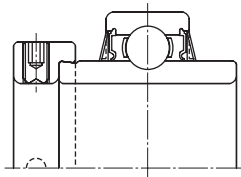
**Ball bearings**  
**Eccentric locking collar type**



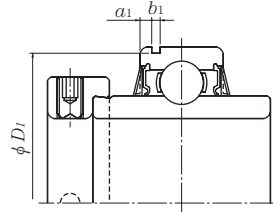
Shaft dia.	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	<i>r</i> <sub>1s</sub> inch min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
<b>75</b>	<b>UELS315D1W3</b>	75	160	100	74.6	43	2.5	2	37.3	62.7	12.7	M16×1.5
<b>2<sup>13</sup>/<sub>16</sub></b>	<b>UELS315-213D1W3</b>	2.8125										
<b>2<sup>7</sup>/<sub>8</sub></b>	<b>UELS315-214D1W3</b>	2.8750	6.2992	3.937	2.9370	1.6929	0.098	0.079	1.469	2.469	0.500	5/8-18UNF
<b>2<sup>15</sup>/<sub>16</sub></b>	<b>UELS315-215D1W3</b>	2.9375										
<b>3</b>	<b>UELS315-300D1W3</b>	3.0000										
<b>80</b>	<b>UELS316D1W3</b>	80	170	106.4	81	45	2.5	2	40.5	65.9	12.7	M16×1.5
<b>3<sup>1</sup>/<sub>16</sub></b>	<b>UELS316-301D1W3</b>	3.0625										
<b>3<sup>3</sup>/<sub>8</sub></b>	<b>UELS316-302D1W3</b>	3.1250	6.6929	4.189	3.1890	1.7717	0.098	0.079	1.594	2.594	0.500	5/8-18UNF
<b>3<sup>3</sup>/<sub>16</sub></b>	<b>UELS316-303D1W3</b>	3.1875										
<b>85</b>	<b>UELS317D1W3</b>	85	180	109.5	84.1	47	3	2.5	42.05	67.45	12.7	M16×1.5
<b>3<sup>1</sup>/<sub>4</sub></b>	<b>UELS317-304D1W3</b>	3.2500										
<b>3<sup>5</sup>/<sub>16</sub></b>	<b>UELS317-305D1W3</b>	3.3125	7.0866	4.311	3.3110	1.8504	0.118	0.098	1.656	2.656	0.500	5/8-18UNF
<b>3<sup>7</sup>/<sub>16</sub></b>	<b>UELS317-307D1W3</b>	3.4375										
<b>90</b>	<b>UELS318D1W3</b>	90	190	115.9	87.3	49	3	2.5	43.65	72.25	14.3	M20×1.5
<b>3<sup>7</sup>/<sub>16</sub></b>	<b>UELS318-307D1W3</b>	3.4375	7.4803	4.563	3.4370	1.9291	0.118	0.098	1.719	2.844	0.563	3/4-16UNF
<b>3<sup>1</sup>/<sub>2</sub></b>	<b>UELS318-308D1W3</b>	3.5000										

Remarks: 1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".  
2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

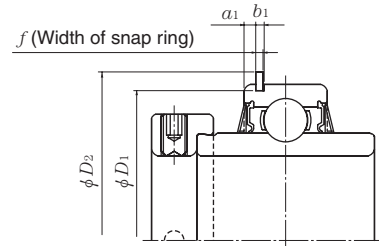
Maintenance free type



Bearing : ULSxx  
With Eccentric locking collar : UELSxxW3

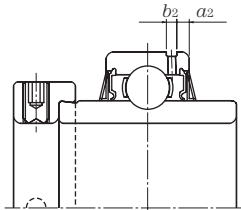


Snap ring groove  
Bearing : ULSxxN  
With Eccentric locking collar : UELSxxNW3

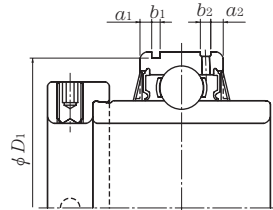


Snap ring  
Bearing : ULSxxNR  
With Eccentric locking collar : UELSxxNRW3

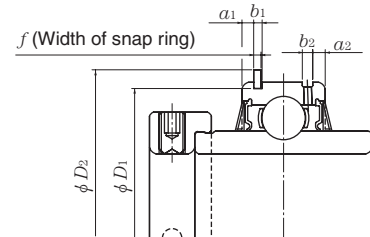
Lubricatable type



Bearing : ULSxxD1  
With Eccentric locking collar : UELSxxD1W3



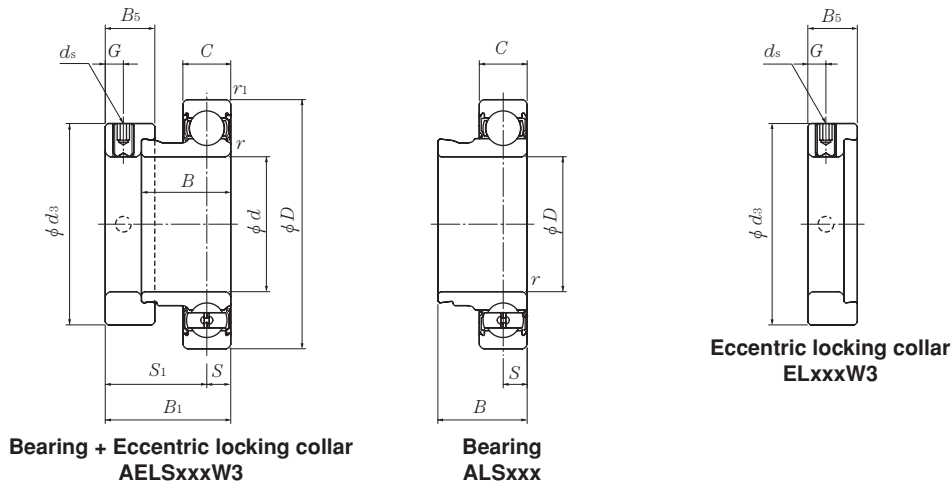
Snap ring groove  
Bearing : ULSxxD1N  
With Eccentric locking collar : UELSxxD1NW3



Snap ring  
Bearing : ULS2xxD1NR  
With Eccentric locking collar : UELS2xxD1NRW3

Nominal dimensions										Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)	
$d_3$	$B_5$	$f$	mm		inch		$a_2$	$b_2$	$D_{2max}$	$D_1$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
			$a_1$	$b_1$	$a_2$	$b_1$								
113	31.8	2.77	5.0	3.25	5.7	4.0	169.7	155.22	113 000	77 000	13.2	5.50	13.5	
4.449	1.252	0.109	0.197	0.128	0.224	0.157	6.681	6.111	25 500	17 400		13.2	13.0	
													12.9	
119	31.8	3.05	5.5	3.65	5.8	4.0	182.9	163.65	123 000	86 500	13.3	6.89	15.3	
4.685	1.252	0.120	0.217	0.144	0.228	0.157	7.201	6.443	27 600	19 500		13.3	15.0	
													15.3	
127	31.8	3.05	6.0	3.65	6.2	4.0	192.9	173.66	133 000	97 000	13.3	8.21	18.2	
5.000	1.252	0.120	0.236	0.144	0.244	0.157	7.594	6.837	29 800	21 800		13.3	17.9	
													17.2	
133	36.5	3.05	6.0	3.65	6.2	4.5	202.9	183.64	143 000	107 000	13.3	9.34	21.2	
5.236	1.437	0.120	0.236	0.144	0.244	0.177	7.988	7.230	32 000	24 100		13.3	20.7	

**Ball bearings**  
**Eccentric locking collar type**

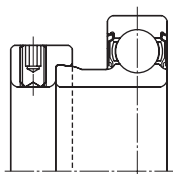


Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm inch	<i>r</i> <sub>1s</sub> mm inch	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
12 1/2	AELS201NW3	12	40	28.6	19	12	0.6	0.6	6.5	22.1	4.8	M6×0.75
	AELS201-008NW3	0.5000	1.5748	1.126	0.7480	0.4724	0.024	0.024	0.256	0.870	0.189	1/4-28UNF
15 9/16 5/8	AELS202NW3	15	40	28.6	19	12	0.6	0.6	6.5	22.1	4.8	M6×0.75
	AELS202-009NW3	0.5625	1.5748	1.126	0.7480	0.4724	0.024	0.024	0.256	0.870	0.189	1/4-28UNF
	AELS202-010NW3	0.6250										
17 1 1/16	AELS203NW3	17	40	28.6	19	12	0.6	0.6	6.5	22.1	4.8	M6×0.75
	AELS203-011NW3	0.6875	1.5748	1.126	0.7480	0.4724	0.024	0.024	0.256	0.870	0.189	1/4-28UNF
20 3/4	AELS204NW3	20	47	31	21.5	14	1	0.6	7.5	23.5	4.8	M6×0.75
	AELS204-012NW3	0.7500	1.8504	1.220	0.8465	0.5512	0.039	0.024	0.295	0.925	0.189	1/4-28UNF
25 1 3/16 7/8 15/16 1	AELS205NW3	25	52	31	21.5	15	1	0.6	7.5	23.5	4.8	M6×0.75
	AELS205-013NW3	0.8125										
	AELS205-014NW3	0.8750	2.0472	1.220	0.8465	0.5906	0.039	0.024	0.295	0.925	0.189	1/4-28UNF
	AELS205-015NW3	0.9375										
	AELS205-100NW3	1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	AELS206NW3	30	62	35.7	23.8	16	1	0.6	9	26.7	6	M8×1
	AELS206-101NW3	1.0625										
	AELS206-102NW3	1.1250	2.4409	1.406	0.9370	0.6299	0.039	0.024	0.354	1.051	0.236	5/16-24UNF
	AELS206-103NW3	1.1875										
	AELS206-104NW3	1.2500										
35 1 1/4 1 5/16 1 3/8 1 7/16	AELS207NW3	35	72	38.9	25.4	17	1.5	0.6	9.5	29.4	6.8	M10×1.25
	AELS207-104NW3	1.2500										
	AELS207-105NW3	1.3125	2.8346	1.531	1.0000	0.6693	0.059	0.024	0.374	1.157	0.268	3/8-24UNF
	AELS207-106NW3	1.3750										
	AELS207-107NW3	1.4375										

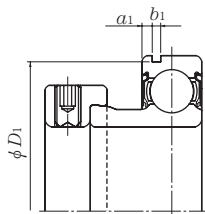
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *f*<sup>0</sup> factor for calculating equivalent radial load is the same as the metric series.

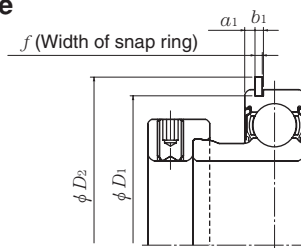
Maintenance free type



Bearing : ALSxx  
With Eccentric locking collar  
: AELSxxW3

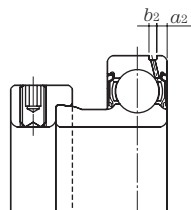


Snap ring groove  
Bearing : ALSxxN  
With Eccentric locking collar  
: AELSxxNW3

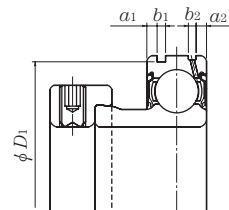


Snap ring  
Bearing : ALSxxNR  
With Eccentric locking collar  
: AELSxxNRW3

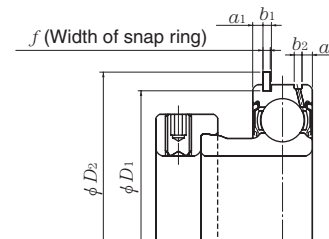
Lubricatable type



Bearing : ALSxxD1  
With Eccentric locking collar  
: AELSxxD1W3



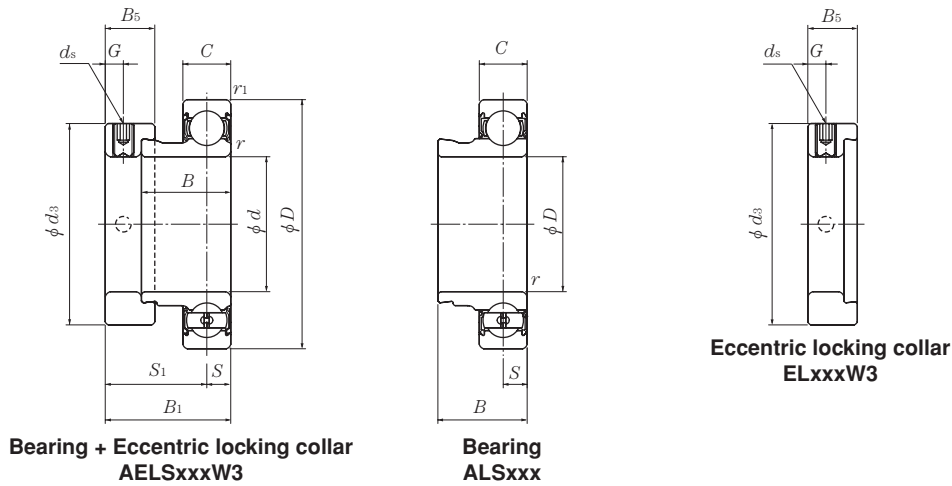
Snap ring groove  
Bearing : ALSxxD1N  
With Eccentric locking collar  
: AELSxxD1NW3



Snap ring  
Bearing : ALS2xxD1NR  
With Eccentric locking collar  
: AELS2xxD1NRW3

Nominal dimensions									Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)		
$d_3$	$D_1$	$a_1$	$b_1$	mm	inch	$f$	$a_2$	$b_2$	$D_{2max}$	N	lbf	$f_0$	kg	lb
				$B_5$	dynamic $C_r$					static $C_{or}$				
29	38.1	1.98	1.5	13.6	1.07	1.9	2.0	44.6	9 600	4 600	12.8	0.12	0.26	
1.142	1.500	0.078	0.059	0.535	0.042	0.075	0.079	1.756	2 160	1 030				
29	38.1	1.98	1.5	13.6	1.07	1.9	2.0	44.6	9 600	4 600	12.8	0.11	0.26	
1.142	1.500	0.078	0.059	0.535	0.042	0.075	0.079	1.756	2 160	1 030			0.24	
29	38.1	1.98	1.5	13.6	1.07	1.9	2.0	44.6	9 600	4 600	12.8	0.10	0.23	
1.142	1.500	0.078	0.059	0.535	0.042	0.075	0.079	1.756	2 160	1 030				
33	44.6	2.38	1.5	13.5	1.07	2.1	2.0	52.7	12 800	6 650	13.2	0.17	0.35	
1.299	1.756	0.094	0.059	0.531	0.042	0.083	0.079	2.075	2 890	1 500				
38	49.73	2.38	1.5	13.5	1.07	2.6	2.0	57.9	14 000	7 850	13.9	0.20	0.51	
1.496	1.958	0.094	0.059	0.531	0.042	0.102	0.079	2.280	3 150	1 770			0.48	
													0.45	0.42
44.5	59.61	3.18	2.05	15.9	1.65	2.1	2.5	67.7	19 500	11 300	13.8	0.31	0.74	
1.752	2.347	0.125	0.081	0.626	0.065	0.083	0.098	2.665	4 400	2 540			0.73	
													0.66	0.61
55.5	68.81	3.18	2.05	17.5	1.65	2.1	3.0	78.6	25 700	15 300	13.8	0.49	1.15	
2.185	2.709	0.125	0.081	0.689	0.065	0.083	0.118	3.094	5 750	3 450			1.10	
													1.04	0.98

**Ball bearings**  
**Eccentric locking collar type**

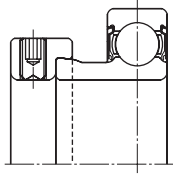


Shaft dia.	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm min.	<i>r</i> <sub>1s</sub> inch min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
<b>40</b>	<b>AELS208NW3</b>	40	80	43.7	30.2	18	1.5	0.6	11	32.7	6.8	M10×1.25
<b>1½</b>	<b>AELS208-108NW3</b>	1.5000	3.1496	1.720	1.1890	0.7087	0.059	0.024	0.433	1.287	0.268	⅜-24UNF
<b>1⅞</b>	<b>AELS208-109NW3</b>	1.5625										
<b>45</b>	<b>AELS209NW3</b>	45	85	43.7	30.2	19	1.5	1.5	11	32.7	6.8	M10×1.25
<b>1⅝</b>	<b>AELS209-110NW3</b>	1.6250										
<b>1⅞</b>	<b>AELS209-111NW3</b>	1.6875	3.3465	1.720	1.1890	0.7480	0.059	0.059	0.433	1.287	0.268	⅜-24UNF
<b>1¾</b>	<b>AELS209-112NW3</b>	1.7500										
<b>50</b>	<b>AELS210NW3</b>	50	90	43.7	30.2	20	1.5	1.5	11	32.7	6.8	M10×1.25
<b>1⅓</b>	<b>AELS210-113NW3</b>	1.8125										
<b>1⅞</b>	<b>AELS210-114NW3</b>	1.8750	3.5433	1.720	1.1890	0.7874	0.059	0.059	0.433	1.287	0.268	⅜-24UNF
<b>1⅝</b>	<b>AELS210-115NW3</b>	1.9375										
<b>2</b>	<b>AELS210-200NW3</b>	2.0000										
<b>55</b>	<b>AELS211NW3</b>	55	100	48.4	32.5	21	2	1.5	12	36.4	8	M10×1.25
<b>2</b>	<b>AELS211-200NW3</b>	2.0000										
<b>2⅞</b>	<b>AELS211-201NW3</b>	2.0625	3.9370	1.906	1.2795	0.8268	0.079	0.059	0.472	1.433	0.315	⅜-24UNF
<b>2⅞</b>	<b>AELS211-202NW3</b>	2.1250										
<b>2⅞</b>	<b>AELS211-203NW3</b>	2.1875										
<b>60</b>	<b>AELS212NW3</b>	60	110	53.1	37.2	22	2	1.5	13.5	39.6	8	M10×1.25
<b>2¼</b>	<b>AELS212-204NW3</b>	2.2500										
<b>2⅝</b>	<b>AELS212-205NW3</b>	2.3125	4.3307	2.091	1.4646	0.8661	0.079	0.059	0.531	1.559	0.315	⅜-24UNF
<b>2⅝</b>	<b>AELS212-206NW3</b>	2.3750										
<b>2⅞</b>	<b>AELS212-207NW3</b>	2.4375										

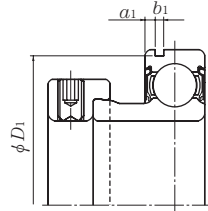
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *J*<sup>0</sup> factor for calculating equivalent radial load is the same as the metric series.

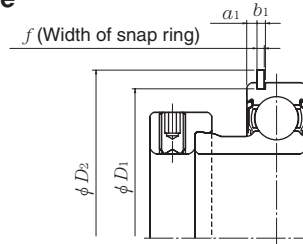
Maintenance free type



Bearing : ALSxx  
With Eccentric locking collar  
: AELSxxW3

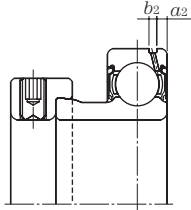


Snap ring groove  
Bearing : ALSxxN  
With Eccentric locking collar  
: AELSxxNW3

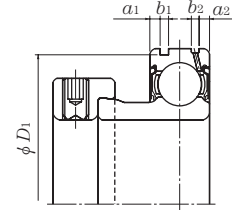


Snap ring  
Bearing : ALSxxNR  
With Eccentric locking collar  
: AELSxxNRW3

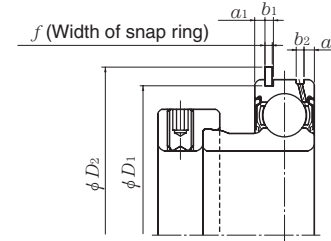
Lubricatable type



Bearing : ALSxxD1  
With Eccentric locking collar  
: AELSxxD1W3



Snap ring groove  
Bearing : ALSxxD1N  
With Eccentric locking collar  
: AELSxxD1NW3

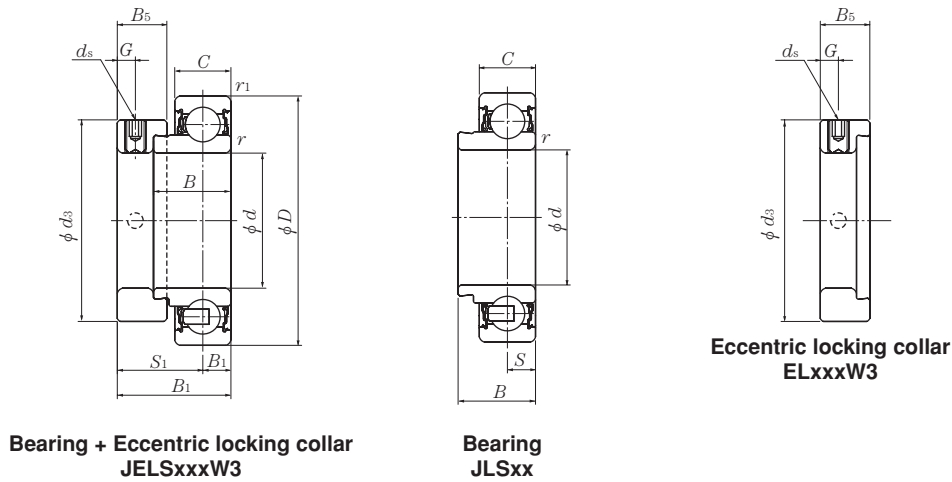


Snap ring  
Bearing : ALS2xxD1NR  
With Eccentric locking collar  
: AELS2xxD1NRW3

Nominal dimensions									Basic load ratings		Factor <sup>2)</sup> <i>f</i> <sub>0</sub>	Mass (approx.) kg lb
<i>d</i> <sub>3</sub>	<i>D</i> <sub>1</sub>	<i>a</i> <sub>1</sub>	<i>b</i> <sub>1</sub>	mm <i>B</i> <sub>5</sub>	inch <i>f</i>	<i>a</i> <sub>2</sub>	<i>b</i> <sub>2</sub>	<i>D</i> <sub>2max</sub>	N dynamic <i>C</i> <sub>r</sub>	lbf static <i>C</i> <sub>0r</sub>		
60	76.81	3.18	2.05	18.3	1.65	2.3	3.0	86.6	29 100	17 800	14.0	0.66
2.362	3.024	0.125	0.081	0.720	0.065	0.091	0.118	3.409	6 550	4 000		1.41
												1.34
63.5	81.81	3.18	2.05	18.3	1.65	2.6	3.0	91.6	32 500	20 400	14.1	0.73
2.500	3.221	0.125	0.081	0.720	0.065	0.102	0.118	3.606	7 350	4 600		1.81
												1.72
69.5	86.79	3.18	2.85	18.3	2.41	3.5	3.0	96.5	35 000	23 200	14.4	0.74
2.736	3.417	0.125	0.112	0.720	0.095	0.138	0.118	3.799	7 900	5 200		1.85
												1.76
76	96.8	3.18	2.85	20.7	2.41	3.5	3.0	106.5	43 500	29 200	14.3	1.00
2.992	3.811	0.125	0.112	0.815	0.095	0.138	0.118	4.193	9 750	6 550		2.49
												2.38
84	106.81	3.18	2.85	22.3	2.41	3.5	3.0	116.6	52 500	36 000	14.3	1.33
3.307	4.205	0.125	0.112	0.878	0.095	0.138	0.118	4.591	11 800	8 150		3.17
												3.04
												2.91
												2.78



**Ball bearings  
Eccentric locking collar type**

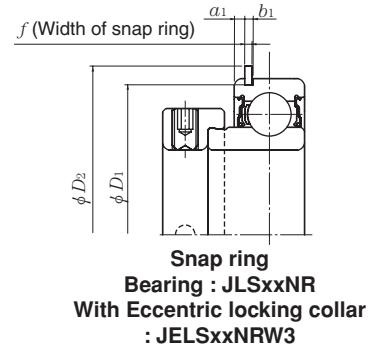
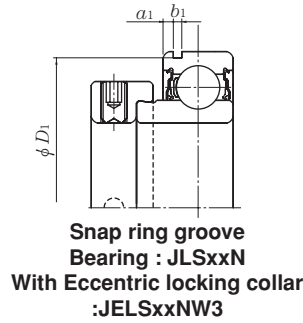
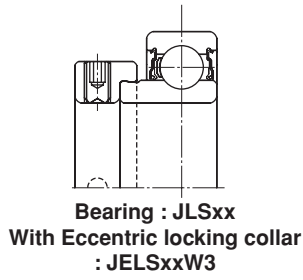


Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i> <sub>1</sub>	<i>B</i>	<i>C</i>	<i>r</i> <sub>s</sub> mm inch	<i>r</i> <sub>1s</sub> mm inch	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>ds</i>
12 1/2	JELS201W3	12	40	28.6	19	13	0.6	0.4	6.5	22.1	4.8	M6×0.75
	JELS201-008W3	0.5000	1.5748	1.126	0.7480	0.5118	0.024	0.016	0.256	0.870	0.189	1/4-28UNF
15 9/16 5/8	JELS202W3	15	40	28.6	19	13	0.6	0.4	6.5	22.1	4.8	M6×0.75
	JELS202-009W3	0.5625	1.5748	1.126	0.7480	0.5118	0.024	0.016	0.256	0.870	0.189	1/4-28UNF
	JELS202-010W3	0.6250										
17 11/16	JELS203W3	17	40	28.6	19	13	0.6	0.4	6.5	22.1	4.8	M6×0.75
	JELS203-011W3	0.6875	1.5748	1.126	0.7480	0.5118	0.024	0.016	0.256	0.870	0.189	1/4-28UNF
20 3/4	JELS204W3	20	47	31	21.5	15	1	0.6	7.5	23.5	4.8	M6×0.75
	JELS204-012W3	0.7500	1.8504	1.220	0.8465	0.5906	0.039	0.024	0.295	0.925	0.189	1/4-28UNF
25 13/16 7/8 15/16 1	JELS205W3	25	52	31	21.5	15	1	0.6	7.5	23.5	4.8	M6×0.75
	JELS205-013W3	0.8125										
	JELS205-014W3	0.8750	2.0472	1.220	0.8465	0.5906	0.039	0.024	0.295	0.925	0.189	1/4-28UNF
	JELS205-015W3	0.9375										
	JELS205-100W3	1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	JELS206W3	30	62	35.7	23.8	18	1	1	9	26.7	6	M8×1
	JELS206-101W3	1.0625										
	JELS206-102W3	1.1250	2.4409	1.406	0.9370	0.7087	0.039	0.039	0.354	1.051	0.236	5/16-24UNF
	JELS206-103W3	1.1875										
	JELS206-104W3	1.2500										
35 1 1/4 1 5/16 1 3/8 1 7/16	JELS207W3	35	72	38.9	25.4	19	1.5	1.5	9.5	29.4	6.8	M10×1.25
	JELS207-104W3	1.2500										
	JELS207-105W3	1.3125	2.8346	1.531	1.0000	0.7480	0.059	0.059	0.374	1.157	0.268	3/8-24UNF
	JELS207-106W3	1.3750										
	JELS207-107W3	1.4375										

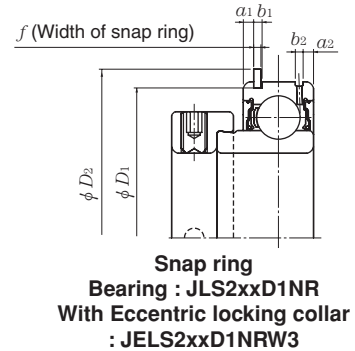
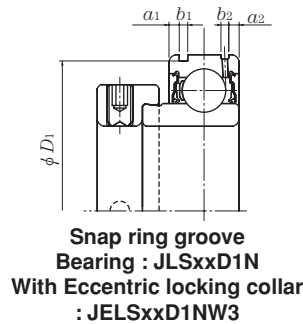
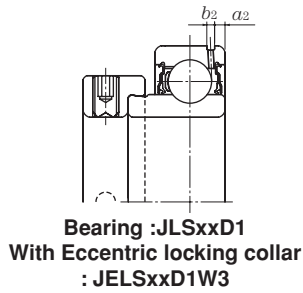
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *f*<sub>0</sub> factor for calculating equivalent radial load is the same as the metric series.

Maintenance free type

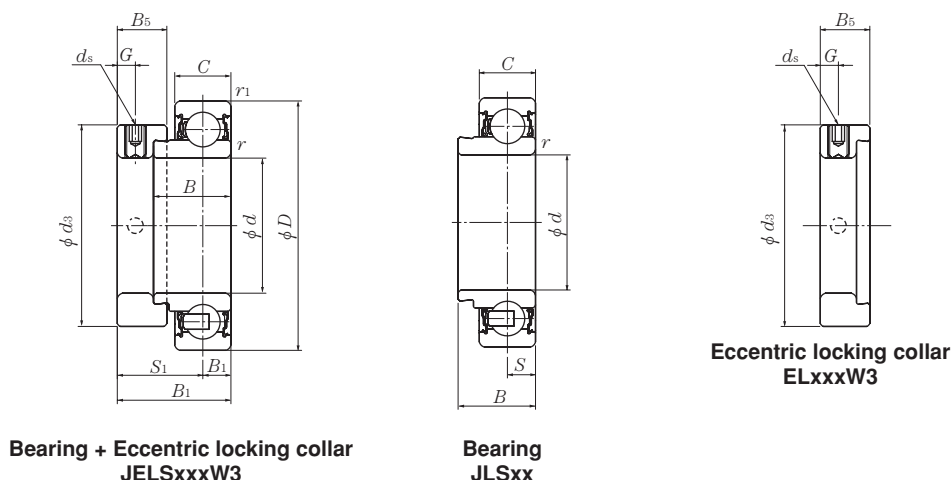


Lubricatable type



Nominal dimensions									Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)
$d_3$	$B_5$	$f$	mm		inch		$D_{2max}$	$D_1$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
			$a_1$	$b_1$	$a_2$	$b_2$						
29	13.6	1.07	2.2	1.5	2.2	2.0	44.6	38.1	9 600	4 600	12.8	0.13
1.142	0.535	0.042	0.087	0.059	0.087	0.079	1.756	1.500	2 160	1 030		0.28
29	13.6	1.07	2.2	1.5	2.2	2.0	44.6	38.1	9 600	4 600	12.8	0.13
1.142	0.535	0.042	0.087	0.059	0.087	0.079	1.756	1.500	2 160	1 030		0.26
29	13.6	1.07	2.2	1.5	2.2	2.0	44.6	38.1	9 600	4 600	12.8	0.10
1.142	0.535	0.042	0.087	0.059	0.087	0.079	1.756	1.500	2 160	1 030		0.22
33	13.5	1.07	2.38	1.5	2.5	2.0	52.7	44.6	12 800	6 650	13.2	0.18
1.299	0.531	0.042	0.094	0.059	0.098	0.079	2.075	1.756	2 890	1 500		0.42
38	13.5	1.07	2.38	1.5	2.6	2.0	57.9	49.73	14 000	7 850	13.9	0.20
1.496	0.531	0.042	0.094	0.059	0.102	0.079	2.280	1.958	3 150	1 770		0.54
												0.51
												0.48
44.5	15.9	1.65	3.7	2.05	3.0	2.5	67.7	59.61	19 500	11 300	13.8	0.34
1.752	0.626	0.065	0.146	0.081	0.118	0.098	2.665	2.347	4 400	2 540		0.84
												0.79
												0.75
55.5	17.5	1.65	3.7	2.05	3.5	2.5	78.6	68.81	25 700	15 300	13.8	0.53
2.185	0.689	0.065	0.146	0.081	0.138	0.098	3.095	2.710	5 750	3 450		1.29
												1.24
												1.18
												1.12

**Ball bearings  
Eccentric locking collar type**



**Bearing + Eccentric locking collar  
JELSxxxW3**

**Bearing  
JLSxx**

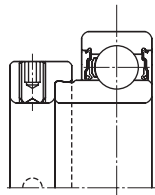
**Eccentric locking collar  
ELxxxW3**

Shaft dia. mm inch	Bearing number <sup>1)</sup>	Nominal dimensions										
		d	D	B <sub>1</sub>	B	C	r <sub>s</sub> mm inch min.	r <sub>1s</sub> mm inch min.	S	S <sub>1</sub>	G	ds
40 1 1/2 1 9/16	JELS208W3	40	80	43.7	30.2	22	1.5	1.5	11	32.7	6.8	M10×1.25
	JELS208-108W3	1.5000	3.1496	1.720	1.1890	0.8661	0.059	0.059	0.433	1.287	0.268	3/8-24UNF
	JELS208-109W3	1.5625										
45 1 5/8 1 11/16 1 3/4	JELS209W3	45	85	43.7	30.2	22	1.5	1.5	11	32.7	6.8	M10×1.25
	JELS209-110W3	1.6250										
	JELS209-111W3	1.6875	3.3465	1.720	1.1890	0.8661	0.059	0.059	0.433	1.287	0.268	3/8-24UNF
50 1 13/16 1 7/8 1 15/16 2	JELS210W3	50	90	43.7	30.2	22	1.5	1.5	11	32.7	6.8	M10×1.25
	JELS210-113W3	1.8125										
	JELS210-114W3	1.8750	3.5433	1.720	1.1890	0.8661	0.059	0.059	0.433	1.287	0.268	3/8-24UNF
55 2 2 1/16 2 1/8 2 3/16	JELS211W3	55	100	48.4	32.5	24	2	2	12	36.4	8	M10×1.25
	JELS211-200W3	2.0000										
	JELS211-201W3	2.0625	3.9370	1.906	1.2795	0.9449	0.079	0.079	0.472	1.433	0.315	3/8-24UNF
60 2 1/4 2 5/16 2 3/8 2 7/16	JELS212W3	60	110	53.1	37.2	27	2	2	13.5	39.6	8	M10×1.25
	JELS212-204W3	2.2500										
	JELS212-205W3	2.3125	4.3307	2.091	1.4646	1.0630	0.079	0.079	0.531	1.559	0.315	3/8-24UNF
	JELS212-206W3	2.3750										
	JELS212-207W3	2.4375										

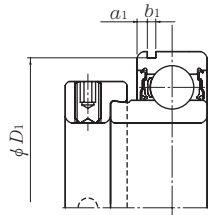
Remarks: 1) If relubricatable type is needed, please order with suffix "D1".

2) For inch series bearings, the *f<sub>0</sub>* factor for calculating equivalent radial load is the same as the metric series.

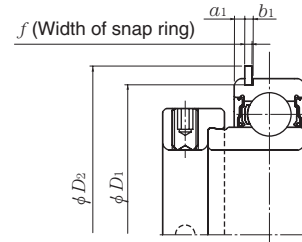
Maintenance free type



Bearing : JLSxx  
With Eccentric locking collar  
: JELSxxW3

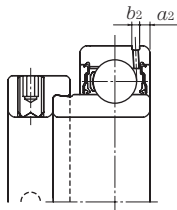


Snap ring groove  
Bearing : JLSxxN  
With Eccentric locking collar  
: JELSxxNW3

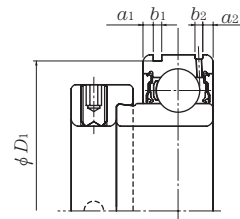


Snap ring  
Bearing : JLSxxNR  
With Eccentric locking collar  
: JELSxxNRW3

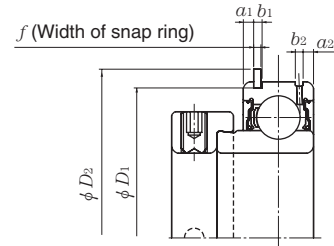
Lubricatable type



Bearing : JLSxxD1  
With Eccentric locking collar  
: JELSxxD1W3



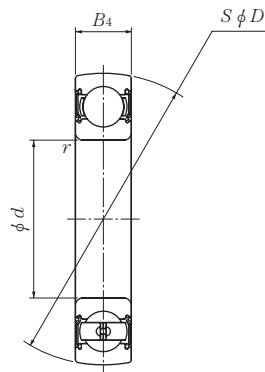
Snap ring groove  
Bearing : JLSxxD1N  
With Eccentric locking collar  
: JELSxxD1NW3



Snap ring  
Bearing : JLS2xxD1NR  
With Eccentric locking collar  
: JELS2xxD1NRW3

Nominal dimensions									Basic load ratings		Factor <sup>2)</sup>	Mass (approx.)
$d_3$	$B_5$	$f$	mm		inch		$D_{2\max}$	$D_1$	N dynamic $C_r$	lbf static $C_{or}$	$f_0$	kg lb
			$a_1$	$b_1$	$a_2$	$b_2$						
60	18.3	1.65	3.8	2.05	3.5	3.0	86.6	76.81	29 100	17 800	14.0	0.71
2.362	0.720	0.065	0.150	0.081	0.138	0.118	3.409	3.024	6 550	4 000		1.64
63.5	18.3	1.65	3.5	2.05	3.6	3.5	91.6	81.81	32 500	20 400	14.1	0.79
2.500	0.720	0.065	0.138	0.081	0.142	0.138	3.606	3.221	7 350	4 600		1.85
69.5	18.3	2.41	3.8	2.85	3.5	3.0	96.5	86.79	35 000	23 200	14.4	0.87
2.736	0.720	0.095	0.150	0.112	0.138	0.118	3.799	3.417	7 900	5 200		2.05
76	20.7	2.41	4.4	2.85	4.0	3.0	106.5	96.80	43 500	29 200	14.3	1.16
2.992	0.815	0.095	0.173	0.112	0.157	0.118	4.193	3.811	9 750	6 550		2.73
84	22.3	2.41	4.4	2.85	4.4	3.5	116.6	106.81	52 500	36 000	14.3	1.52
3.307	0.878	0.095	0.173	0.112	0.173	0.138	4.590	4.205	11 800	8 150		3.46
												3.33
												3.17

**Ball bearings**  
**Tight fit type**



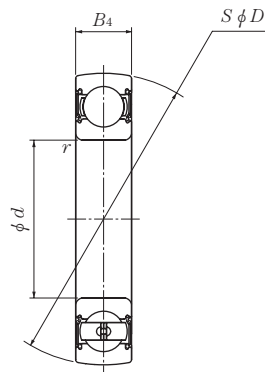
Shaft dia. mm	Bearing number	Nominal dimensions				Basic load ratings		Factor $f_0$	Mass	
		$d$	mm $D$	inch $B_4$	$r_s$ min.	N dynamic $C_r$	lbf static $C_{or}$		kg	lb
10	CS200LLU	10 0.3937	30 1.1811	9 0.354	0.6 0.024	5 100 1 150	2 390 540	13.2	0.03 0.07	
12	CS201LLU	12 0.4724	32 1.2598	10 0.394	0.6 0.024	6 100 1 370	2 750 615	12.7	0.04 0.09	
15	CS202LLU	15 0.5906	35 1.3780	11 0.433	0.6 0.024	7 750 1 740	3 600 805	12.7	0.04 0.09	
17	CS203LLU	17 0.6693	40 1.5748	12 0.472	0.6 0.024	9 600 2 160	4 600 1 030	12.8	0.06 0.13	
20	CS204LLU	20 0.7874	47 1.8504	14 0.551	1 0.039	12 800 2 890	6 650 1 500	13.2	0.10 0.22	
25	CS205LLU	25 0.9843	52 2.0472	15 0.591	1 0.039	14 000 3 150	7 850 1 770	13.9	0.13 0.29	
30	CS206LLU	30 1.1811	62 2.4409	16 0.630	1 0.039	19 500 4 400	11 300 2 540	13.8	0.20 0.44	
35	CS207LLU	35 1.3780	72 2.8346	17 0.669	1.5 0.059	25 700 5 750	15 300 3 450	13.8	0.29 0.64	
40	CS208LLU	40 1.5748	80 3.1496	18 0.709	1.5 0.059	29 100 6 550	17 800 4 000	14.0	0.37 0.82	
45	CS209LLU	45 1.7717	85 3.3465	19 0.748	1.5 0.059	32 500 7 350	20 400 4 600	14.1	0.39 0.86	
50	CS210LLU	50 1.9685	90 3.5433	20 0.787	1.5 0.059	35 000 7 900	23 200 5 200	14.4	0.46 1.01	
55	CS211LLU	55 2.1654	100 3.9370	21 0.827	2 0.079	43 500 9 750	29 200 6 550	14.3	0.58 1.28	
60	CS212LLU	60 2.3622	110 4.3307	22 0.866	2 0.079	52 500 11 800	36 000 8 150	14.3	0.76 1.68	

Note: Symbols

$\Delta d_{mp}$ : Mean bore diameter deviation

$\Delta B_s$ : Inner ring width deviation

$\Delta C_s$ : Outer ring width deviation



Shaft dia. mm	Bearing number	Nominal dimensions				Basic load ratings		Factor $f_0$	Mass (approx.)	
		$d$	mm $D$	inch $B_4$	$r_s$ min.	N dynamic $C_r$	lbf static $C_{or}$		kg	lb
25	CS305LLU	25	62	17	1.5	21 200	10 900	12.6	0.22	
		0.9843	2.4409	0.669	0.059	4 750	2 460		0.49	
30	CS306LLU	30	72	19	1.5	26 700	15 000	13.3	0.34	
		1.1811	2.8346	0.748	0.059	6 000	3 400		0.75	
35	CS307LLU	35	80	21	2	33 500	19 100	13.1	0.44	
		1.3780	3.1496	0.827	0.079	7 500	4 300		0.97	
40	CS308LLU	40	90	23	2	40 500	24 000	13.2	0.62	
		1.5748	3.5433	0.906	0.079	9 150	5 400		1.37	
45	CS309LLU	45	100	25	2	53 000	32 000	13.1	0.79	
		1.7717	3.9370	0.984	0.079	11 900	7 200		1.74	
50	CS310LLU	50	110	27	2.5	62 000	38 500	13.2	1.06	
		1.9685	4.3307	1.063	0.098	13 900	8 600		2.34	

Note: Symbols  
 $\Delta d_{mp}$ : Mean bore diameter deviation  
 $\Delta B_s$ : Inner ring width deviation  
 $\Delta C_s$ : Outer ring width deviation