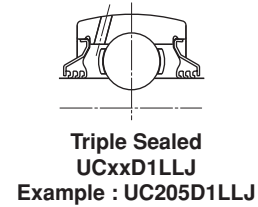
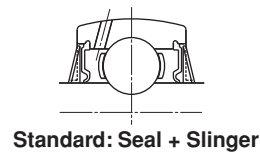
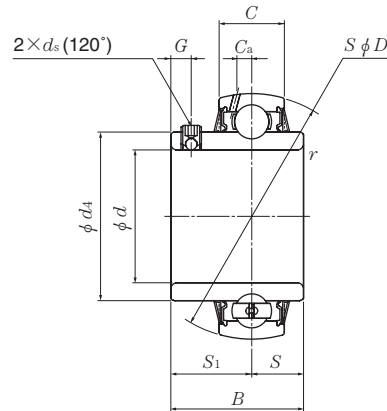


# Ball bearings Set screw type

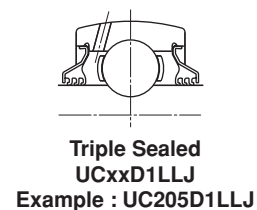
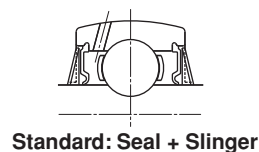
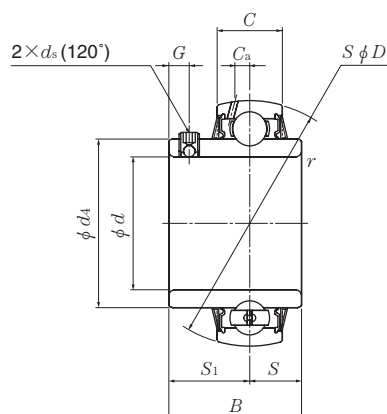


| Shaft<br>dia.                                   | Bearing number                                                                                         | Nominal dimensions                         |              |                |              |                                    |               |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

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

# Ball bearings

## Set screw type

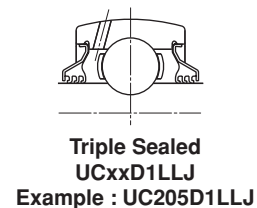
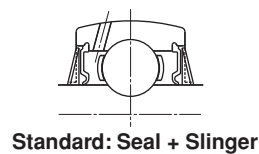
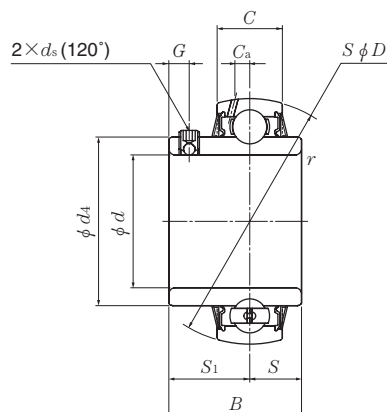


| Shaft<br>dia.                       | Bearing number     | Nominal dimensions |            |             |           |                                    |             |                              |           |                                     |                      |                      |
|-------------------------------------|--------------------|--------------------|------------|-------------|-----------|------------------------------------|-------------|------------------------------|-----------|-------------------------------------|----------------------|----------------------|
|                                     |                    | <i>d</i>           | <i>D</i>   | <i>B</i>    | <i>C</i>  | <i>r<sub>s</sub></i><br>mm<br>min. | <i>S</i>    | inch<br><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     | <sup>5</sup> / <sub>16</sub> -24UNF | 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     | <sup>5</sup> / <sub>16</sub> -24UNF | 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     | <sup>3</sup> / <sub>8</sub> -24UNF  | 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     | <sup>3</sup> / <sub>8</sub> -24UNF  | 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     | <sup>3</sup> / <sub>8</sub> -24UNF  | 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     | <sup>3</sup> / <sub>8</sub> -24UNF  | 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     | <sup>3</sup> / <sub>8</sub> -24UNF  | 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.

# Ball bearings

## Set screw type



| Shaft<br>dia.                      | Bearing number     | Nominal dimensions |            |             |           |                                   |             |                              |           |                |                      |                      |
|------------------------------------|--------------------|--------------------|------------|-------------|-----------|-----------------------------------|-------------|------------------------------|-----------|----------------|----------------------|----------------------|
|                                    |                    | <i>d</i>           | <i>D</i>   | <i>B</i>    | <i>C</i>  | <i>r<sub>s</sub></i><br>mm.<br>mm | <i>S</i>    | inch<br><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>3<sup>1</sup>/<sub>4</sub></b>  | <b>UC217-304D1</b> | 3.2500             |            |             |           |                                   |             |                              |           |                |                      |                      |
| <b>3<sup>5</sup>/<sub>16</sub></b> | <b>UC217-305D1</b> | 3.3125             | 5.9055     | 3.3740      | 1.4173    | 0.098                             | 1.343       | 2.031                        | 0.472     | 1/2-20UNF      | 4.1890               | 0.311                |
| <b>3<sup>7</sup>/<sub>16</sub></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>3<sup>1</sup>/<sub>2</sub></b>  | <b>UC218-308D1</b> | 3.5000             | 6.2992     | 3.7795      | 1.4570    | 0.098                             | 1.563       | 2.217                        | 0.472     | 1/2-20UNF      | 4.3937               | 0.343                |

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