



Flexural pivot bearings are limited rotation bearings for applications that do not allow lubrication but also require precision, repeatability and infinite life.

Angle of rotations are graded into three series:

- Series 10 -  $\pm 15^\circ$  (mainly for light loads)
- Series 20 -  $\pm 7.5^\circ$  (mainly for medium-heavy loads)
- Series 10 -  $\pm 3.7^\circ$  (mainly for heavy loads)

They have a range of torsional stiffness depending on the bearing diameter. The bearing consists of two stainless steel sleeves held in position by three leaf springs on two planes. There is no contact between the sleeves (eliminating friction) and the springs provide the pivotal action which is inherently self centring and requires no lubrication.

## Material

The sleeves in a Flexure Pivot bearing are made from 416 Stainless Steel. The spring and core are made from Stainless Steel (410 and 420) with a braze alloy (AMS4765).

Special pivot bearings can be manufactured with angle of rotation up to  $\pm 50^\circ$  and for heavy loads.

## Single Ended Pivot Bearings

Here one end is fixed and the other end is free to rotate - this type is used most widely as they support overhung loads.

Single Ended Pivot Bearings are frictionless with infinite life (see our technical graphs for life cycle curves).



## Double Ended Pivot Bearings

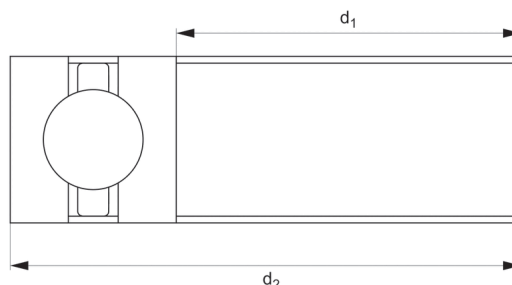
In these applications both ends are fixed and the centre of the bearing is free to rotate - this supports suspended loads.

Double Ended Pivot Bearings are frictionless with infinite life (see our technical graphs for life cycle curves).





### R4200



#### Material

Corrosion resistant split bearing rings.  
Ball bearings retained in plastic cage.

#### Tips

Our split bearings are compatible with  
most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

| Order No. | d <sub>1</sub><br>inch | d <sub>1</sub><br>mm | d <sub>2</sub><br>mm | Dyn. load C <sub>ax</sub><br>kN<br>max. | Dyn. load C <sub>rad</sub><br>kN<br>max. | Static load C <sub>0 ax</sub><br>kN<br>max. | Static load C <sub>0 rad</sub><br>kN<br>max. | Speed<br>rpm<br>max. | Weight<br>kg |
|-----------|------------------------|----------------------|----------------------|-----------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------------------|----------------------|--------------|
| R4200.040 | 4                      | 101.60               | 120.65               | 9.3                                     | 8.5                                      | 37.0                                        | 14.7                                         | 1500                 | 0.18         |
| R4200.042 | 4¼                     | 107.95               | 127.00               | 9.6                                     | 8.7                                      | 39.5                                        | 15.8                                         | 1410                 | 0.19         |
| R4200.045 | 4½                     | 114.30               | 133.35               | 9.7                                     | 8.8                                      | 41.0                                        | 16.5                                         | 1340                 | 0.20         |
| R4200.047 | 4¾                     | 120.65               | 139.70               | 10.0                                    | 9.0                                      | 44.0                                        | 17.5                                         | 1270                 | 0.21         |
| R4200.050 | 5                      | 127.00               | 146.05               | 10.10                                   | 9.1                                      | 45.5                                        | 18.2                                         | 1200                 | 0.22         |
| R4200.055 | 5½                     | 139.70               | 158.75               | 10.60                                   | 9.6                                      | 51.0                                        | 20.3                                         | 1090                 | 0.24         |
| R4200.060 | 6                      | 152.40               | 171.45               | 10.90                                   | 9.8                                      | 55.0                                        | 22.1                                         | 1000                 | 0.26         |
| R4200.065 | 6½                     | 165.10               | 184.15               | 11.20                                   | 10.1                                     | 60.0                                        | 23.9                                         | 920                  | 0.28         |
| R4200.070 | 7                      | 177.80               | 196.85               | 11.50                                   | 10.4                                     | 64.0                                        | 25.5                                         | 860                  | 0.30         |
| R4200.075 | 7½                     | 190.50               | 209.55               | 11.70                                   | 10.6                                     | 68.0                                        | 27.5                                         | 800                  | 0.32         |
| R4200.080 | 8                      | 203.20               | 222.25               | 12.00                                   | 10.9                                     | 73.0                                        | 29.0                                         | 750                  | 0.34         |
| R4200.085 | 8½                     | 215.90               | 234.95               | 12.20                                   | 11.1                                     | 77.0                                        | 31.0                                         | 710                  | 0.36         |
| R4200.090 | 9                      | 228.60               | 247.65               | 12.50                                   | 11.3                                     | 82.0                                        | 32.5                                         | 670                  | 0.38         |
| R4200.095 | 9½                     | 241.30               | 260.35               | 12.80                                   | 11.6                                     | 87.0                                        | 35.0                                         | 630                  | 0.39         |
| R4200.100 | 10                     | 254.00               | 273.05               | 13.00                                   | 11.8                                     | 91.0                                        | 36.5                                         | 600                  | 0.41         |
| R4200.105 | 10½                    | 266.70               | 285.75               | 13.30                                   | 12.0                                     | 96.0                                        | 38.5                                         | 570                  | 0.43         |
| R4200.110 | 11                     | 279.40               | 298.45               | 13.50                                   | 12.2                                     | 100.0                                       | 40.0                                         | 550                  | 0.45         |
| R4200.115 | 11½                    | 292.10               | 311.15               | 13.70                                   | 12.4                                     | 105.0                                       | 42.0                                         | 520                  | 0.47         |
| R4200.120 | 12                     | 304.80               | 323.85               | 13.90                                   | 12.6                                     | 109.0                                       | 43.5                                         | 500                  | 0.49         |
| R4200.130 | 13                     | 330.20               | 349.25               | 14.30                                   | 12.9                                     | 118.0                                       | 47.0                                         | 460                  | 0.53         |
| R4200.140 | 14                     | 355.60               | 374.65               | 14.70                                   | 13.3                                     | 127.0                                       | 51.0                                         | 430                  | 0.56         |
| R4200.150 | 15                     | 381.00               | 400.05               | 15.10                                   | 13.6                                     | 136.0                                       | 54.0                                         | 400                  | 0.60         |
| R4200.160 | 16                     | 406.40               | 425.45               | 15.40                                   | 13.9                                     | 145.0                                       | 58.0                                         | 380                  | 0.64         |
| R4200.170 | 17                     | 431.80               | 450.85               | 15.70                                   | 14.2                                     | 154.0                                       | 62.0                                         | 350                  | 0.68         |
| R4200.180 | 18                     | 457.20               | 476.25               | 16.10                                   | 14.5                                     | 163.0                                       | 65.0                                         | 330                  | 0.72         |
| R4200.190 | 19                     | 482.60               | 501.65               | 16.40                                   | 14.8                                     | 172.0                                       | 69.0                                         | 320                  | 0.76         |
| R4200.200 | 20                     | 508.00               | 527.05               | 16.70                                   | 15.1                                     | 181.0                                       | 72.0                                         | 300                  | 0.79         |
| R4200.210 | 21                     | 533.40               | 552.45               | 17.00                                   | 15.4                                     | 190.0                                       | 76.0                                         | 290                  | 0.83         |
| R4200.220 | 22                     | 558.80               | 577.85               | 17.30                                   | 15.6                                     | 199.0                                       | 79.0                                         | 270                  | 0.87         |
| R4200.230 | 23                     | 584.20               | 603.25               | 17.60                                   | 15.9                                     | 208.0                                       | 83.0                                         | 260                  | 0.91         |
| R4200.240 | 24                     | 609.60               | 628.65               | 17.90                                   | 16.1                                     | 217.0                                       | 87.0                                         | 250                  | 0.95         |
| R4200.250 | 25                     | 635.00               | 654.05               | 18.10                                   | 16.4                                     | 226.0                                       | 90.0                                         | 240                  | 0.98         |
| R4200.260 | 26                     | 660.40               | 679.45               | 18.40                                   | 16.6                                     | 235.0                                       | 94.0                                         | 230                  | 1.02         |
| R4200.270 | 27                     | 685.80               | 704.85               | 18.70                                   | 16.9                                     | 245.0                                       | 98.0                                         | 220                  | 1.06         |



## Split Bearing - Slim

slim bearing type

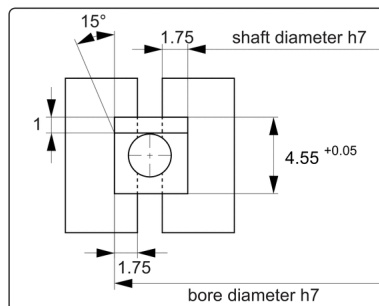
## Ring Bearings

| Order No.        | d <sub>1</sub><br>inch | d <sub>1</sub><br>mm | d <sub>2</sub><br>mm | Dyn. load C <sub>ax</sub><br>kN<br>max. | Dyn. load C <sub>rad</sub><br>kN<br>max. | Static load C <sub>0 ax</sub><br>kN<br>max. | Static load C <sub>0 rad</sub><br>kN<br>max. | Speed<br>rpm<br>max. | Weight<br>kg |
|------------------|------------------------|----------------------|----------------------|-----------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------------------|----------------------|--------------|
| <b>R4200.280</b> | 28                     | 711.20               | 730.25               | 18.90                                   | 17.1                                     | 255.0                                       | 101.0                                        | 210                  | 1.10         |
| <b>R4200.290</b> | 29                     | 736.60               | 755.65               | 19.10                                   | 17.3                                     | 260.0                                       | 105.0                                        | 210                  | 1.14         |
| <b>R4200.300</b> | 30                     | 762.00               | 781.05               | 19.30                                   | 17.5                                     | 270.0                                       | 108.0                                        | 200                  | 1.18         |
| <b>R4200.310</b> | 31                     | 787.40               | 806.45               | 19.60                                   | 17.7                                     | 280.0                                       | 112.0                                        | 190                  | 1.22         |
| <b>R4200.320</b> | 32                     | 812.80               | 831.85               | 19.80                                   | 17.9                                     | 290.0                                       | 116.0                                        | 190                  | 1.26         |
| <b>R4200.330</b> | 33                     | 838.20               | 857.25               | 20.00                                   | 18.1                                     | 300.0                                       | 119.0                                        | 180                  | 1.30         |
| <b>R4200.340</b> | 34                     | 863.60               | 882.65               | 31.0                                    | 18.5                                     | 305.0                                       | 123.0                                        | 180                  | 1.34         |

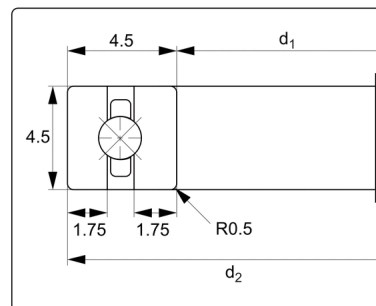


### R4204.1

RING BEARINGS



fitted dimensions



#### Material

Corrosion resistant split bearing rings.  
Ball bearings retained in plastic cage.

#### Technical Notes

Please specify:

- bearing ring material required

- ball bearing material required
  - ball cage material required.
- See previous page for options.

#### Tips

Our split bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Smaller sizes on previous page.

| Order No. | d <sub>1</sub> | d <sub>2</sub> | Strength dyn. C<br>N | Strength dyn. C <sub>0</sub><br>N | Weight<br>kg |
|-----------|----------------|----------------|----------------------|-----------------------------------|--------------|
| R4204.310 | 310            | 319            | 4.680                | 18.740                            | 0.121        |
| R4204.320 | 320            | 329            | 4.740                | 19.340                            | 0.125        |
| R4204.330 | 330            | 339            | 4.800                | 19.930                            | 0.129        |
| R4204.340 | 340            | 349            | 4.860                | 20.530                            | 0.133        |
| R4204.350 | 350            | 359            | 4.920                | 21.120                            | 0.137        |
| R4204.360 | 360            | 369            | 4.970                | 21.720                            | 0.141        |
| R4204.370 | 370            | 379            | 5.030                | 22.310                            | 0.145        |
| R4204.380 | 380            | 389            | 5.090                | 22.910                            | 0.149        |
| R4204.390 | 390            | 399            | 5.140                | 23.500                            | 0.153        |
| R4204.400 | 400            | 409            | 5.200                | 24.100                            | 0.157        |
| R4204.410 | 410            | 419            | 5.240                | 24.700                            | 0.161        |
| R4204.420 | 420            | 429            | 5.290                | 25.290                            | 0.165        |
| R4204.430 | 430            | 439            | 5.330                | 25.900                            | 0.169        |
| R4204.440 | 440            | 449            | 5.380                | 26.480                            | 0.173        |
| R4204.450 | 450            | 459            | 5.420                | 27.070                            | 0.177        |
| R4204.460 | 460            | 469            | 5.460                | 27.670                            | 0.181        |
| R4204.470 | 470            | 479            | 5.510                | 28.260                            | 0.185        |
| R4204.480 | 480            | 489            | 5.550                | 28.860                            | 0.189        |
| R4204.490 | 490            | 499            | 5.600                | 29.450                            | 0.193        |
| R4204.500 | 500            | 509            | 5.640                | 30.050                            | 0.197        |
| R4204.510 | 510            | 519            | 5.680                | 30.900                            | 0.201        |
| R4204.520 | 520            | 529            | 5.730                | 31.500                            | 0.205        |
| R4204.530 | 530            | 539            | 5.770                | 32.100                            | 0.209        |
| R4204.540 | 540            | 549            | 5.820                | 32.700                            | 0.213        |
| R4204.550 | 550            | 559            | 5.860                | 33.300                            | 0.217        |
| R4204.560 | 560            | 569            | 5.900                | 33.900                            | 0.221        |
| R4204.570 | 570            | 579            | 5.950                | 34.500                            | 0.225        |
| R4204.580 | 580            | 589            | 5.990                | 35.100                            | 0.229        |
| R4204.590 | 590            | 599            | 6.040                | 35.700                            | 0.233        |
| R4204.600 | 600            | 609            | 6.080                | 36.300                            | 0.237        |
| R4204.610 | 610            | 619            | 6.130                | 36.900                            | 0.241        |



## Split Bearing - Supra Slim

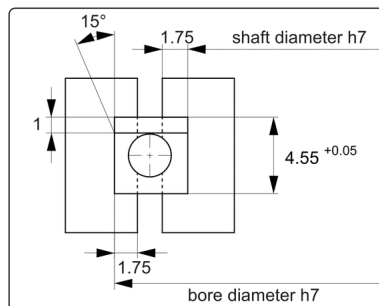
thin ring bearing type

## Ring Bearings

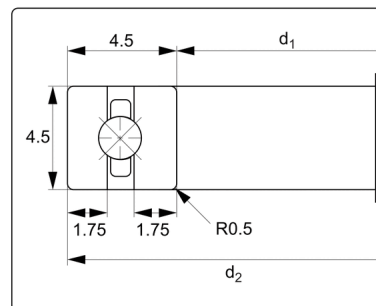
| Order No. | d <sub>1</sub> | d <sub>2</sub> | Strength dyn. C<br>N | Strength dyn. C <sub>0</sub><br>N | Weight<br>kg |
|-----------|----------------|----------------|----------------------|-----------------------------------|--------------|
| R4204.620 | 620            | 629            | 6.180                | 37.500                            | 0.245        |
| R4204.630 | 630            | 639            | 6.230                | 38.100                            | 0.249        |
| R4204.640 | 640            | 649            | 6.280                | 38.700                            | 0.253        |



### R4204



fitted dimensions



#### Material

Corrosion resistant split bearing rings.  
Ball bearings retained in plastic cage.

#### Technical Notes

Please specify:

- bearing ring material required

- ball bearing material required
  - ball cage material required.
- See previous page for options.

#### Tips

Our split bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Larger sizes on next page.

| Order No. | d <sub>1</sub> | d <sub>2</sub> | Strength dyn. C<br>N | Strength dyn. C <sub>0</sub><br>N | Weight<br>kg |
|-----------|----------------|----------------|----------------------|-----------------------------------|--------------|
| R4204.035 | 35             | 44             | 2.180                | 2.280                             | 0.014        |
| R4204.040 | 40             | 49             | 2.270                | 2.570                             | 0.016        |
| R4204.045 | 45             | 54             | 2.360                | 2.850                             | 0.018        |
| R4204.050 | 50             | 59             | 2.450                | 3.140                             | 0.020        |
| R4204.055 | 55             | 64             | 2.540                | 3.420                             | 0.022        |
| R4204.060 | 60             | 69             | 2.630                | 3.710                             | 0.024        |
| R4204.065 | 65             | 74             | 2.720                | 3.990                             | 0.025        |
| R4204.070 | 70             | 79             | 2.810                | 4.310                             | 0.027        |
| R4204.075 | 75             | 84             | 2.870                | 4.600                             | 0.029        |
| R4204.080 | 80             | 89             | 2.930                | 4.890                             | 0.031        |
| R4204.085 | 85             | 94             | 2.990                | 5.180                             | 0.033        |
| R4204.090 | 90             | 99             | 3.050                | 5.500                             | 0.035        |
| R4204.095 | 95             | 104            | 3.110                | 5.790                             | 0.037        |
| R4204.100 | 100            | 109            | 3.170                | 6.080                             | 0.039        |
| R4204.110 | 110            | 119            | 3.260                | 6.660                             | 0.043        |
| R4204.120 | 120            | 129            | 3.360                | 7.240                             | 0.047        |
| R4204.130 | 130            | 139            | 3.450                | 7.910                             | 0.051        |
| R4204.140 | 140            | 149            | 3.550                | 8.500                             | 0.055        |
| R4204.150 | 150            | 159            | 3.640                | 9.080                             | 0.059        |
| R4204.160 | 160            | 169            | 3.720                | 9.670                             | 0.062        |
| R4204.170 | 170            | 179            | 3.810                | 10.260                            | 0.066        |
| R4204.180 | 180            | 189            | 3.890                | 10.920                            | 0.070        |
| R4204.190 | 190            | 199            | 3.980                | 11.500                            | 0.074        |
| R4204.200 | 200            | 209            | 4.060                | 12.100                            | 0.078        |
| R4204.210 | 210            | 219            | 4.120                | 12.690                            | 0.082        |
| R4204.220 | 220            | 229            | 4.170                | 13.280                            | 0.086        |
| R4204.230 | 230            | 239            | 4.230                | 13.870                            | 0.090        |
| R4204.240 | 240            | 249            | 4.290                | 14.580                            | 0.094        |
| R4204.250 | 250            | 259            | 4.350                | 15.170                            | 0.098        |
| R4204.260 | 260            | 269            | 4.400                | 15.770                            | 0.102        |
| R4204.270 | 270            | 279            | 4.460                | 16.360                            | 0.106        |



## Split Bearing - Supra Slim

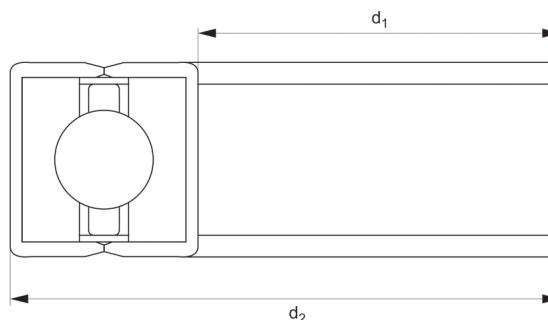
thin ring bearing type

## Ring Bearings

| Order No. | d <sub>1</sub> | d <sub>2</sub> | Strength dyn. C<br>N | Strength dyn. C <sub>0</sub><br>N | Weight<br>kg |
|-----------|----------------|----------------|----------------------|-----------------------------------|--------------|
| R4204.280 | 280            | 289            | 4.520                | 16.960                            | 0.110        |
| R4204.290 | 290            | 299            | 4.570                | 17.550                            | 0.113        |
| R4204.300 | 300            | 309            | 4.630                | 18.150                            | 0.117        |



### R4205



#### Material

Corrosion resistant split bearing rings.  
Ball bearings retained in plastic cage.

#### Tips

Our split bearings are compatible with  
most other manufacturers and are very cost

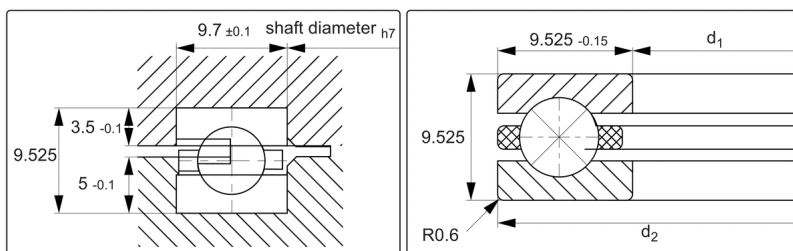
competitive. Please ask us to 'cross reference' if required.

| Order No. | d <sub>1</sub> & d <sub>3</sub><br>mm | d <sub>2</sub><br>mm | d <sub>4</sub><br>mm | Dyn. load C <sub>ax</sub><br>kN<br>max. | Dyn. load C <sub>rad</sub><br>kN<br>max. | Speed<br>min. <sup>-1</sup><br>max. | Static load C <sub>0 ax</sub><br>kN<br>max. | Static load C <sub>0 rad</sub><br>kN<br>max. | Weight<br>kg |
|-----------|---------------------------------------|----------------------|----------------------|-----------------------------------------|------------------------------------------|-------------------------------------|---------------------------------------------|----------------------------------------------|--------------|
| R4205.070 | 175.0                                 | 199.65               | 199.5                | 10.4                                    | 9.4                                      | 870                                 | 57.6                                        | 23.0                                         | 0.32         |
| R4205.075 | 187.7                                 | 212.35               | 212.20               | 10.5                                    | 9.5                                      | 810                                 | 61.2                                        | 24.8                                         | 0.34         |
| R4205.080 | 200.4                                 | 225.05               | 224.9                | 10.8                                    | 9.8                                      | 760                                 | 65.7                                        | 26.1                                         | 0.36         |
| R4205.085 | 213.1                                 | 237.75               | 237.6                | 11.0                                    | 10.0                                     | 720                                 | 69.3                                        | 27.9                                         | 0.38         |
| R4205.090 | 225.8                                 | 250.45               | 250.3                | 11.3                                    | 10.2                                     | 680                                 | 73.8                                        | 29.3                                         | 0.41         |
| R4205.095 | 238.5                                 | 263.15               | 263.0                | 11.5                                    | 10.4                                     | 640                                 | 78.3                                        | 31.5                                         | 0.43         |
| R4205.100 | 251.2                                 | 275.85               | 275.7                | 11.7                                    | 10.6                                     | 610                                 | 81.9                                        | 32.9                                         | 0.45         |
| R4205.105 | 263.9                                 | 288.55               | 288.4                | 12.0                                    | 10.8                                     | 580                                 | 86.4                                        | 34.7                                         | 0.47         |
| R4205.110 | 276.6                                 | 301.25               | 301.1                | 12.2                                    | 11.0                                     | 550                                 | 90.0                                        | 36.0                                         | 0.50         |
| R4205.115 | 289.3                                 | 313.95               | 313.8                | 12.3                                    | 11.2                                     | 530                                 | 94.5                                        | 37.8                                         | 0.52         |
| R4205.120 | 302.0                                 | 326.65               | 326.5                | 12.5                                    | 11.3                                     | 510                                 | 98.1                                        | 39.2                                         | 0.54         |
| R4205.130 | 327.4                                 | 352.05               | 351.9                | 12.9                                    | 11.6                                     | 470                                 | 106.2                                       | 42.3                                         | 0.59         |
| R4205.140 | 352.8                                 | 377.45               | 377.3                | 13.2                                    | 12.0                                     | 430                                 | 114.3                                       | 45.9                                         | 0.63         |
| R4205.150 | 378.2                                 | 402.85               | 402.7                | 13.6                                    | 12.2                                     | 400                                 | 122.4                                       | 48.6                                         | 0.68         |
| R4205.160 | 403.6                                 | 428.25               | 428.1                | 13.9                                    | 12.5                                     | 380                                 | 130.5                                       | 52.2                                         | 0.72         |
| R4205.170 | 429.0                                 | 453.65               | 453.5                | 14.1                                    | 12.8                                     | 360                                 | 138.6                                       | 55.8                                         | 0.77         |
| R4205.180 | 454.4                                 | 479.05               | 478.9                | 14.5                                    | 13.0                                     | 340                                 | 146.7                                       | 58.5                                         | 0.81         |
| R4205.190 | 479.8                                 | 504.45               | 504.3                | 14.8                                    | 13.3                                     | 320                                 | 154.8                                       | 62.1                                         | 0.86         |
| R4205.200 | 505.2                                 | 529.85               | 529.7                | 15.0                                    | 13.6                                     | 300                                 | 162.9                                       | 64.8                                         | 0.90         |
| R4205.210 | 530.6                                 | 555.25               | 555.1                | 15.3                                    | 13.9                                     | 290                                 | 171.0                                       | 68.4                                         | 0.95         |
| R4205.220 | 556.0                                 | 580.65               | 580.5                | 15.6                                    | 14.0                                     | 270                                 | 179.1                                       | 71.1                                         | 0.99         |
| R4205.230 | 581.4                                 | 606.05               | 605.9                | 15.8                                    | 14.3                                     | 260                                 | 187.2                                       | 74.7                                         | 1.04         |
| R4205.240 | 606.8                                 | 631.45               | 631.3                | 16.1                                    | 14.5                                     | 250                                 | 195.3                                       | 78.3                                         | 1.08         |
| R4205.250 | 632.2                                 | 656.85               | 656.7                | 16.3                                    | 14.8                                     | 240                                 | 203.4                                       | 81.0                                         | 1.13         |
| R4205.260 | 657.6                                 | 682.25               | 682.1                | 16.6                                    | 14.9                                     | 230                                 | 211.5                                       | 84.6                                         | 1.17         |
| R4205.270 | 683.0                                 | 707.65               | 707.5                | 16.8                                    | 15.2                                     | 220                                 | 220.5                                       | 88.2                                         | 1.22         |
| R4205.280 | 708.4                                 | 733.05               | 732.9                | 17.0                                    | 15.4                                     | 220                                 | 229.50                                      | 90.9                                         | 1.26         |
| R4205.290 | 733.8                                 | 758.45               | 758.3                | 17.2                                    | 15.6                                     | 210                                 | 234.0                                       | 94.5                                         | 1.31         |
| R4205.300 | 759.2                                 | 783.85               | 783.7                | 17.4                                    | 15.8                                     | 200                                 | 243.0                                       | 97.2                                         | 1.35         |
| R4205.310 | 784.6                                 | 809.25               | 809.1                | 17.6                                    | 15.9                                     | 190                                 | 252.0                                       | 100.8                                        | 1.40         |
| R4205.320 | 810.0                                 | 834.65               | 834.5                | 17.8                                    | 16.1                                     | 190                                 | 261.0                                       | 104.4                                        | 1.44         |
| R4205.330 | 835.4                                 | 860.05               | 859.9                | 18.0                                    | 16.3                                     | 180                                 | 270.0                                       | 107.1                                        | 1.49         |
| R4205.340 | 863.6                                 | 885.45               | 885.3                | 18.3                                    | 18.5                                     | 180                                 | 274.5                                       | 110.7                                        | 1.53         |



# Split Bearing - Slim ball thrust bearing type

## Ring Bearings



fitted dimensions



**R4208**

RING BEARINGS

### Material

Corrosion resistant, hardened steel  
bearing ring and balls 1,4304.  
Ball cage - polyamide 12 plastic.

### Tips

Our split bearings are compatible with  
most other manufacturers and are very cost  
competitive. Please ask us to 'cross refe-  
rence' if required.

### Technical Notes

Preferred sizes.

| Order No. | d <sub>1</sub><br>inch | d <sub>1</sub><br>mm | d <sub>2</sub><br>mm | Dyn. load C <sub>ax</sub><br>kN<br>max. | Speed<br>min. <sup>-1</sup><br>max. | Static load C <sub>0 ax</sub><br>kN<br>max. | Weight<br>kg |
|-----------|------------------------|----------------------|----------------------|-----------------------------------------|-------------------------------------|---------------------------------------------|--------------|
| R4208.070 | 7                      | 177.80               | 196.85               | 18.7                                    | 860                                 | 128.0                                       | 0.30         |
| R4208.075 | 7½                     | 190.50               | 209.55               | 19.0                                    | 800                                 | 136.0                                       | 0.32         |
| R4208.080 | 8                      | 203.20               | 222.25               | 19.5                                    | 750                                 | 146.0                                       | 0.34         |
| R4208.085 | 8½                     | 215.90               | 234.95               | 19.8                                    | 710                                 | 154.0                                       | 0.36         |
| R4208.090 | 9                      | 228.60               | 247.65               | 20.3                                    | 670                                 | 164.0                                       | 0.38         |
| R4208.095 | 9½                     | 241.30               | 260.35               | 20.8                                    | 630                                 | 174.0                                       | 0.39         |
| R4208.100 | 10                     | 254.00               | 273.05               | 21.1                                    | 600                                 | 182.0                                       | 0.41         |
| R4208.105 | 10½                    | 266.70               | 285.75               | 21.6                                    | 570                                 | 192.0                                       | 0.43         |
| R4208.110 | 11                     | 279.40               | 298.45               | 21.9                                    | 550                                 | 200.0                                       | 0.45         |
| R4208.115 | 11½                    | 292.10               | 311.15               | 22.3                                    | 520                                 | 210.0                                       | 0.47         |
| R4208.120 | 12                     | 304.80               | 323.85               | 22.6                                    | 500                                 | 218.0                                       | 0.49         |
| R4208.130 | 13                     | 330.20               | 349.25               | 23.2                                    | 460                                 | 236.0                                       | 0.53         |
| R4208.140 | 14                     | 355.60               | 374.65               | 23.9                                    | 430                                 | 254.0                                       | 0.56         |
| R4208.150 | 15                     | 381.00               | 400.05               | 24.5                                    | 400                                 | 272.0                                       | 0.60         |
| R4208.160 | 16                     | 406.40               | 425.45               | 25.0                                    | 380                                 | 290.0                                       | 0.64         |
| R4208.170 | 17                     | 431.80               | 450.85               | 25.5                                    | 350                                 | 308.0                                       | 0.68         |
| R4208.180 | 18                     | 457.20               | 476.25               | 26.2                                    | 330                                 | 326.0                                       | 0.72         |
| R4208.190 | 19                     | 482.60               | 501.65               | 26.7                                    | 320                                 | 344.0                                       | 0.76         |
| R4208.200 | 20                     | 508.00               | 527.05               | 27.1                                    | 300                                 | 362.0                                       | 0.79         |
| R4208.210 | 21                     | 533.40               | 552.45               | 27.6                                    | 290                                 | 380.0                                       | 0.83         |
| R4208.220 | 22                     | 558.80               | 577.85               | 28.1                                    | 270                                 | 398.0                                       | 0.87         |
| R4208.230 | 23                     | 584.20               | 603.25               | 28.6                                    | 260                                 | 416.0                                       | 0.91         |
| R4208.240 | 24                     | 609.60               | 628.65               | 29.1                                    | 250                                 | 434.0                                       | 0.95         |
| R4208.250 | 25                     | 635.00               | 654.05               | 29.4                                    | 240                                 | 452.0                                       | 0.98         |
| R4208.260 | 26                     | 660.40               | 679.45               | 29.9                                    | 230                                 | 470.0                                       | 1.02         |
| R4208.270 | 27                     | 685.80               | 704.85               | 30.4                                    | 220                                 | 490.0                                       | 1.06         |
| R4208.280 | 28                     | 711.20               | 730.25               | 30.7                                    | 210                                 | 510.0                                       | 1.10         |
| R4208.290 | 29                     | 736.60               | 755.65               | 31.0                                    | 210                                 | 520.0                                       | 1.14         |
| R4208.300 | 30                     | 762.00               | 781.05               | 31.4                                    | 200                                 | 540.0                                       | 1.18         |
| R4208.310 | 31                     | 787.40               | 806.45               | 31.9                                    | 190                                 | 560.0                                       | 1.22         |



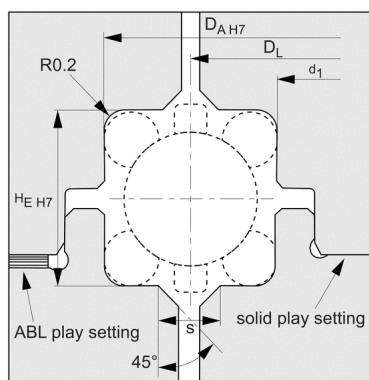
| Order No. | d <sub>1</sub><br>inch | d <sub>1</sub><br>mm | d <sub>2</sub><br>mm | Dyn. load C <sub>ax</sub><br>kN<br>max. | Speed<br>min. <sup>-1</sup><br>max. | Static load C <sub>0 ax</sub><br>kN<br>max. | Weight<br>kg |
|-----------|------------------------|----------------------|----------------------|-----------------------------------------|-------------------------------------|---------------------------------------------|--------------|
| R4208.320 | 32                     | 812.80               | 831.85               | 32.2                                    | 190                                 | 580.0                                       | 1.26         |
| R4208.330 | 33                     | 838.20               | 857.25               | 32.5                                    | 180                                 | 600.0                                       | 1.30         |
| R4208.340 | 34                     | 863.60               | 882.65               | 33.0                                    | 180                                 | 610.0                                       | 1.34         |



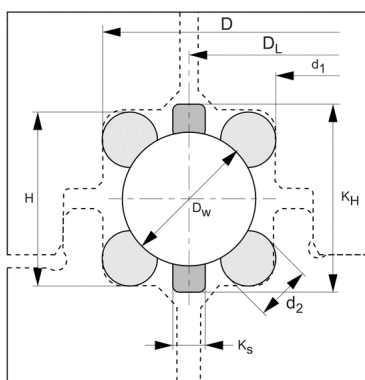
## Ball Bearing - Wire

metric, ground raceway

## Ring Bearings



fitted dimensions



### R4222.1

RING BEARINGS

#### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

#### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

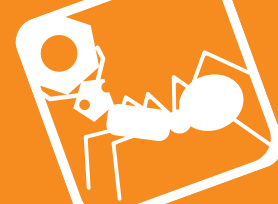
#### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

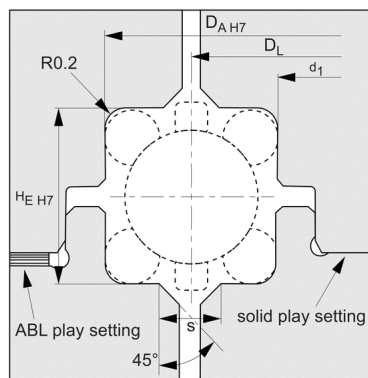
competitive. Please ask us to 'cross reference' if required.

Smaller sizes on previous page.

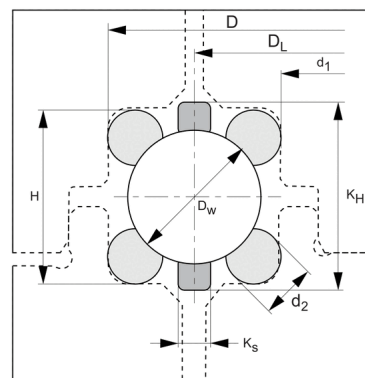
| Order No.  | d    | D <sub>L</sub> | h  | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>g |
|------------|------|----------------|----|---------------------------|----------------------------------------|-------------|
| R4222.1025 | 1013 | 1025           | 12 | 38.4                      | 348.5                                  | 1.85        |
| R4222.1050 | 1038 | 1050           | 12 | 38.9                      | 357.0                                  | 1.89        |
| R4222.1075 | 1063 | 1075           | 12 | 39.3                      | 365.5                                  | 1.94        |
| R4222.1100 | 1088 | 1100           | 12 | 39.8                      | 374.0                                  | 1.98        |
| R4222.1125 | 1113 | 1125           | 12 | 40.2                      | 382.5                                  | 2.03        |
| R4222.1150 | 1138 | 1150           | 12 | 40.7                      | 391.0                                  | 2.07        |
| R4222.1175 | 1163 | 1175           | 12 | 41.1                      | 399.5                                  | 2.12        |
| R4222.1200 | 1188 | 1200           | 12 | 41.6                      | 408.0                                  | 2.16        |
| R4222.1225 | 1213 | 1225           | 12 | 42.0                      | 416.5                                  | 2.21        |
| R4222.1250 | 1238 | 1250           | 12 | 42.4                      | 425.0                                  | 2.25        |
| R4222.1275 | 1263 | 1275           | 12 | 42.8                      | 433.5                                  | 2.30        |
| R4222.1300 | 1288 | 1300           | 12 | 43.3                      | 442.0                                  | 2.34        |
| R4222.1325 | 1313 | 1325           | 12 | 43.7                      | 450.5                                  | 2.39        |
| R4222.1350 | 1338 | 1350           | 12 | 44.1                      | 459.0                                  | 2.43        |
| R4222.1375 | 1363 | 1375           | 12 | 44.5                      | 467.5                                  | 2.48        |
| R4222.1400 | 1388 | 1400           | 12 | 44.9                      | 476.0                                  | 2.52        |
| R4222.1425 | 1413 | 1425           | 12 | 45.3                      | 484.5                                  | 2.57        |
| R4222.1450 | 1438 | 1450           | 12 | 45.7                      | 493.0                                  | 2.61        |
| R4222.1475 | 1463 | 1475           | 12 | 46.1                      | 501.5                                  | 2.66        |
| R4222.1500 | 1488 | 1500           | 12 | 46.5                      | 510.0                                  | 2.70        |
| R4222.1525 | 1513 | 1525           | 12 | 46.9                      | 518.5                                  | 2.75        |
| R4222.1550 | 1538 | 1550           | 12 | 47.2                      | 527.0                                  | 2.79        |
| R4222.1575 | 1563 | 1575           | 12 | 47.6                      | 535.5                                  | 2.84        |
| R4222.1600 | 1588 | 1600           | 12 | 48.0                      | 544.0                                  | 2.90        |
| R4222.1625 | 1613 | 1625           | 12 | 48.4                      | 554.5                                  | 2.93        |
| R4222.1650 | 1638 | 1650           | 12 | 48.7                      | 561.0                                  | 2.97        |
| R4222.1675 | 1663 | 1675           | 12 | 49.1                      | 569.5                                  | 3.02        |



### R4222



fitted dimensions



#### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

#### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

#### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Larger sizes on next page.

| Order No. | d   | D <sub>L</sub> | h  | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>g |
|-----------|-----|----------------|----|---------------------------|----------------------------------------|-------------|
| R4222.100 | 88  | 100            | 12 | 12.0                      | 34.0                                   | 0.18        |
| R4222.125 | 113 | 125            | 12 | 13.4                      | 42.5                                   | 0.23        |
| R4222.150 | 138 | 150            | 12 | 14.7                      | 51.0                                   | 0.27        |
| R4222.175 | 163 | 175            | 12 | 15.9                      | 59.5                                   | 0.32        |
| R4222.200 | 188 | 200            | 12 | 17.0                      | 68.0                                   | 0.36        |
| R4222.225 | 213 | 225            | 12 | 18.0                      | 76.5                                   | 0.41        |
| R4222.250 | 238 | 250            | 12 | 19.0                      | 85.0                                   | 0.45        |
| R4222.275 | 263 | 275            | 12 | 19.9                      | 93.5                                   | 0.50        |
| R4222.300 | 288 | 300            | 12 | 20.8                      | 102.0                                  | 0.54        |
| R4222.325 | 313 | 325            | 12 | 21.6                      | 110.5                                  | 0.59        |
| R4222.350 | 338 | 350            | 12 | 22.4                      | 119.0                                  | 0.63        |
| R4222.375 | 363 | 375            | 12 | 23.2                      | 127.5                                  | 0.68        |
| R4222.400 | 388 | 400            | 12 | 24.0                      | 136.0                                  | 0.72        |
| R4222.425 | 413 | 425            | 12 | 24.7                      | 144.5                                  | 0.77        |
| R4222.450 | 438 | 450            | 12 | 25.5                      | 153.0                                  | 0.81        |
| R4222.475 | 463 | 475            | 12 | 26.2                      | 161.5                                  | 0.86        |
| R4222.500 | 488 | 500            | 12 | 26.8                      | 170.0                                  | 0.90        |
| R4222.525 | 513 | 525            | 12 | 27.5                      | 178.5                                  | 0.95        |
| R4222.550 | 538 | 550            | 12 | 28.1                      | 187.0                                  | 0.99        |
| R4222.575 | 563 | 575            | 12 | 28.8                      | 195.5                                  | 1.04        |
| R4222.600 | 588 | 600            | 12 | 29.4                      | 204.0                                  | 1.08        |
| R4222.625 | 613 | 625            | 12 | 30.0                      | 212.5                                  | 1.13        |
| R4222.650 | 638 | 650            | 12 | 30.6                      | 221.0                                  | 1.17        |
| R4222.675 | 663 | 675            | 12 | 31.2                      | 229.5                                  | 1.22        |
| R4222.700 | 688 | 700            | 12 | 31.7                      | 238.0                                  | 1.26        |
| R4222.725 | 713 | 725            | 12 | 32.3                      | 246.5                                  | 1.31        |
| R4222.750 | 738 | 750            | 12 | 32.9                      | 255.0                                  | 1.35        |
| R4222.775 | 763 | 775            | 12 | 33.4                      | 263.5                                  | 1.40        |
| R4222.800 | 788 | 800            | 12 | 33.9                      | 272.0                                  | 1.44        |
| R4222.825 | 813 | 825            | 12 | 34.5                      | 280.5                                  | 1.49        |
| R4222.850 | 838 | 850            | 12 | 35.0                      | 289.0                                  | 1.53        |

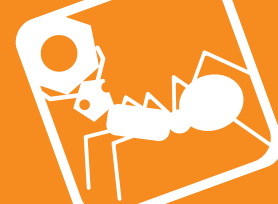


## Ball Bearing - Wire

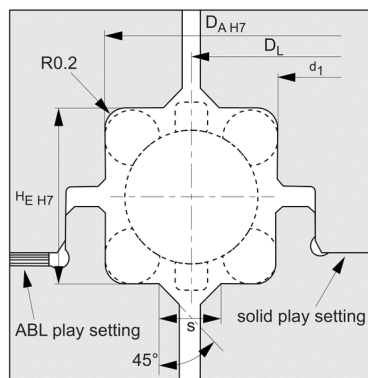
metric, groundway raceway

## Ring Bearings

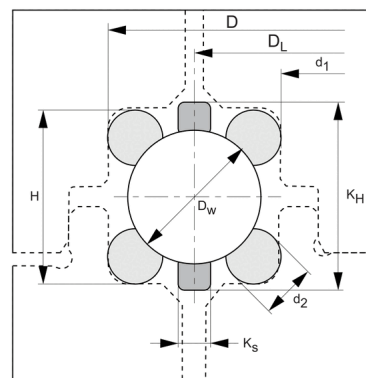
| Order No.  | d   | D <sub>L</sub> | h  | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>g |
|------------|-----|----------------|----|---------------------------|----------------------------------------|-------------|
| R4222.875  | 863 | 875            | 12 | 35.5                      | 297.5                                  | 1.58        |
| R4222.900  | 888 | 900            | 12 | 36.0                      | 306.0                                  | 1.62        |
| R4222.925  | 913 | 925            | 12 | 36.5                      | 314.5                                  | 1.67        |
| R4222.950  | 938 | 950            | 12 | 37.0                      | 323.0                                  | 1.71        |
| R4222.975  | 963 | 975            | 12 | 37.5                      | 331.5                                  | 1.76        |
| R4222.1000 | 988 | 1000           | 12 | 37.9                      | 340.0                                  | 1.80        |



### R4224.1



fitted dimensions



#### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

#### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

#### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

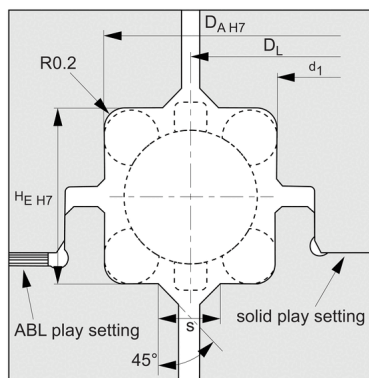
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| Order No.  | d       | H<br>inch | H<br>mm | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>kg |
|------------|---------|-----------|---------|---------------------------|----------------------------------------|--------------|
| R4224.1025 | 1012.05 | 0.51      | 12.95   | 46.4                      | 317.8                                  | 2.15         |
| R4224.1050 | 1037.05 | 0.51      | 12.95   | 47.0                      | 325.5                                  | 2.21         |
| R4224.1075 | 1062.05 | 0.51      | 12.95   | 47.5                      | 333.3                                  | 2.26         |
| R4224.1100 | 1087.05 | 0.51      | 12.95   | 48.1                      | 341.0                                  | 2.31         |
| R4224.1125 | 1112.05 | 0.51      | 12.95   | 48.6                      | 348.8                                  | 2.36         |
| R4224.1150 | 1137.05 | 0.51      | 12.95   | 49.2                      | 356.5                                  | 2.42         |
| R4224.1175 | 1162.05 | 0.51      | 12.95   | 49.7                      | 364.3                                  | 2.47         |
| R4224.1200 | 1187.05 | 0.51      | 12.95   | 50.2                      | 372.0                                  | 2.52         |
| R4224.1225 | 1212.05 | 0.51      | 12.95   | 50.8                      | 379.8                                  | 2.57         |
| R4224.1250 | 1237.05 | 0.51      | 12.95   | 51.3                      | 387.5                                  | 2.63         |
| R4224.1275 | 1262.05 | 0.51      | 12.95   | 51.8                      | 395.3                                  | 2.68         |
| R4224.1300 | 1287.05 | 0.51      | 12.95   | 52.3                      | 403.0                                  | 2.73         |
| R4224.1325 | 1312.05 | 0.51      | 12.95   | 52.8                      | 410.8                                  | 2.78         |
| R4224.1350 | 1337.05 | 0.51      | 12.95   | 53.3                      | 418.5                                  | 2.84         |
| R4224.1375 | 1362.05 | 0.51      | 12.95   | 53.8                      | 426.3                                  | 2.89         |
| R4224.1400 | 1387.05 | 0.51      | 12.95   | 54.3                      | 434.0                                  | 2.94         |
| R4224.1425 | 1412.05 | 0.51      | 12.95   | 54.7                      | 441.8                                  | 2.99         |
| R4224.1450 | 1437.05 | 0.51      | 12.95   | 55.2                      | 449.5                                  | 3.05         |
| R4224.1475 | 1462.05 | 0.51      | 12.95   | 55.7                      | 457.3                                  | 3.10         |
| R4224.1500 | 1487.05 | 0.51      | 12.95   | 56.2                      | 465.0                                  | 3.15         |
| R4224.1525 | 1512.05 | 0.51      | 12.95   | 56.6                      | 472.8                                  | 3.20         |
| R4224.1550 | 1537.05 | 0.51      | 12.95   | 57.1                      | 480.5                                  | 3.26         |
| R4224.1575 | 1562.05 | 0.51      | 12.95   | 57.5                      | 488.3                                  | 3.31         |
| R4224.1600 | 1587.05 | 0.51      | 12.95   | 58.0                      | 496.0                                  | 3.36         |
| R4224.1625 | 1612.05 | 0.51      | 12.95   | 58.5                      | 503.8                                  | 3.41         |
| R4224.1650 | 1637.05 | 0.51      | 12.95   | 58.9                      | 511.5                                  | 3.47         |
| R4224.1675 | 1662.05 | 0.51      | 12.95   | 59.3                      | 519.3                                  | 3.52         |

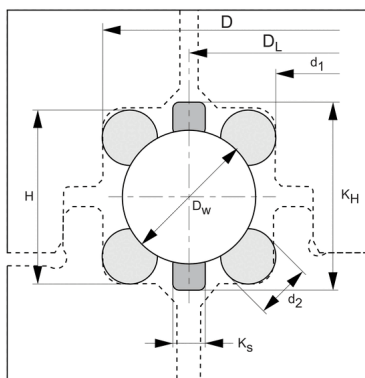


# Ball Bearing - Wire imperial, ground raceway

## Ring Bearings



fitted dimensions



# R4224

RING BEARINGS

### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

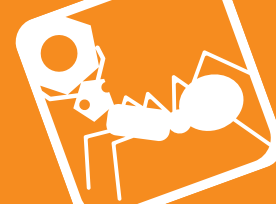
### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Larger sizes on next page.

| Order No. | d      | H<br>inch | H<br>mm | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>kg |
|-----------|--------|-----------|---------|---------------------------|----------------------------------------|--------------|
| R4224.100 | 87.05  | 0.51      | 12.95   | 14.5                      | 31.0                                   | 0.21         |
| R4224.125 | 112.05 | 0.51      | 12.95   | 16.2                      | 38.8                                   | 0.26         |
| R4224.150 | 137.05 | 0.51      | 12.95   | 17.8                      | 46.5                                   | 0.32         |
| R4224.175 | 162.05 | 0.51      | 12.95   | 19.2                      | 54.3                                   | 0.37         |
| R4224.200 | 187.05 | 0.51      | 12.95   | 20.5                      | 62.0                                   | 0.42         |
| R4224.225 | 212.05 | 0.51      | 12.95   | 21.8                      | 69.8                                   | 0.47         |
| R4224.250 | 237.05 | 0.51      | 12.95   | 22.9                      | 77.5                                   | 0.53         |
| R4224.275 | 262.05 | 0.51      | 12.95   | 24.0                      | 85.3                                   | 0.58         |
| R4224.300 | 287.05 | 0.51      | 12.95   | 25.1                      | 93.0                                   | 0.63         |
| R4224.325 | 312.05 | 0.51      | 12.95   | 26.1                      | 100.8                                  | 0.68         |
| R4224.350 | 337.05 | 0.51      | 12.95   | 27.1                      | 108.5                                  | 0.74         |
| R4224.375 | 362.05 | 0.51      | 12.95   | 28.1                      | 116.3                                  | 0.79         |
| R4224.400 | 387.05 | 0.51      | 12.95   | 29.0                      | 124.0                                  | 0.84         |
| R4224.425 | 412.05 | 0.51      | 12.95   | 29.9                      | 131.8                                  | 0.89         |
| R4224.450 | 437.05 | 0.51      | 12.95   | 30.8                      | 139.5                                  | 0.95         |
| R4224.475 | 462.05 | 0.51      | 12.95   | 31.6                      | 147.3                                  | 1.00         |
| R4224.500 | 487.05 | 0.51      | 12.95   | 32.4                      | 155.0                                  | 1.05         |
| R4224.525 | 512.05 | 0.51      | 12.95   | 33.2                      | 162.8                                  | 1.10         |
| R4224.550 | 537.05 | 0.51      | 12.95   | 34.0                      | 170.5                                  | 1.16         |
| R4224.575 | 562.05 | 0.51      | 12.95   | 34.8                      | 178.3                                  | 1.21         |
| R4224.600 | 587.05 | 0.51      | 12.95   | 35.5                      | 185.0                                  | 1.26         |
| R4224.625 | 612.05 | 0.51      | 12.95   | 36.3                      | 193.8                                  | 1.31         |
| R4224.650 | 637.05 | 0.51      | 12.95   | 37.0                      | 201.5                                  | 1.37         |
| R4224.675 | 662.05 | 0.51      | 12.95   | 37.7                      | 209.3                                  | 1.42         |
| R4224.700 | 687.05 | 0.51      | 12.95   | 38.4                      | 217.0                                  | 1.47         |
| R4224.725 | 712.05 | 0.51      | 12.95   | 39.0                      | 224.8                                  | 1.52         |
| R4224.750 | 737.05 | 0.51      | 12.95   | 39.7                      | 232.5                                  | 1.58         |
| R4224.775 | 762.05 | 0.51      | 12.95   | 40.4                      | 240.3                                  | 1.63         |
| R4224.800 | 787.05 | 0.51      | 12.95   | 41.0                      | 248.0                                  | 1.68         |
| R4224.825 | 812.05 | 0.51      | 12.95   | 41.6                      | 255.8                                  | 1.73         |
| R4224.850 | 837.05 | 0.51      | 12.95   | 42.3                      | 263.5                                  | 1.79         |



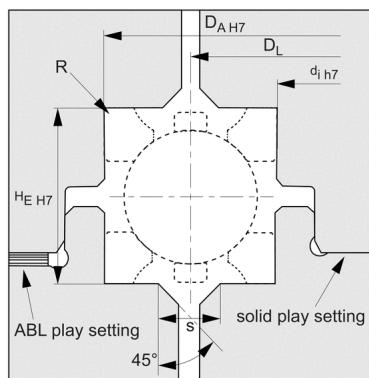
| Order No.         | d      | H<br>inch | H<br>mm | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>kg |
|-------------------|--------|-----------|---------|---------------------------|----------------------------------------|--------------|
| <b>R4224.875</b>  | 862.05 | 0.51      | 12.95   | 42.9                      | 271.3                                  | 1.84         |
| <b>R4224.900</b>  | 887.05 | 0.51      | 12.95   | 43.5                      | 279.0                                  | 1.89         |
| <b>R4224.925</b>  | 912.05 | 0.51      | 12.95   | 44.1                      | 286.8                                  | 1.94         |
| <b>R4224.950</b>  | 937.05 | 0.51      | 12.95   | 44.7                      | 294.5                                  | 2.00         |
| <b>R4224.975</b>  | 962.05 | 0.51      | 12.95   | 45.3                      | 302.3                                  | 2.05         |
| <b>R4224.1000</b> | 987.05 | 0.51      | 12.95   | 45.9                      | 310.0                                  | 2.10         |



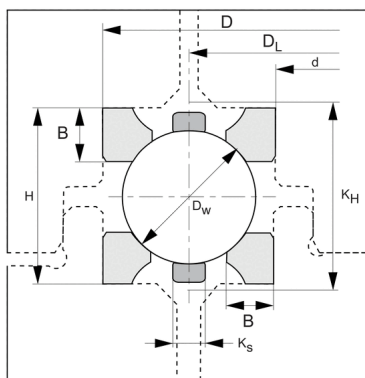
# Ball Bearing - Wire, Duo Profile

duo-profile, drawn raceway

## Ring Bearings



fitted dimensions



**R4230.1**

RING BEARINGS

### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

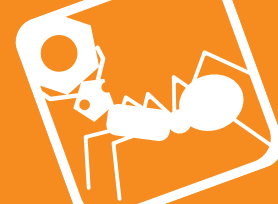
### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

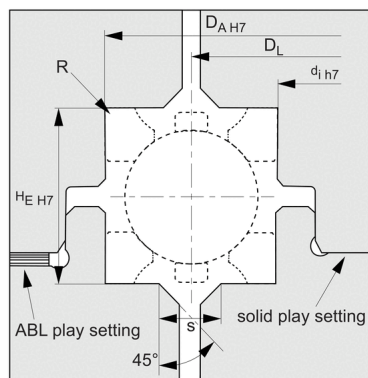
competitive. Please ask us to 'cross reference' if required.

Smaller sizes on previous page.

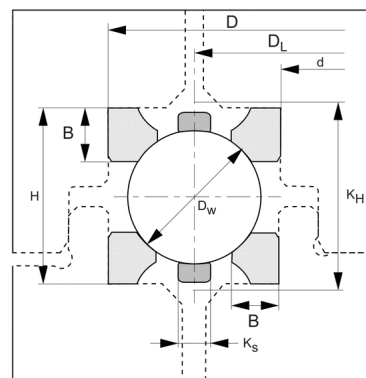
| Order No. | d   | D <sub>L</sub> | h  | Load C <sub>0</sub><br>kN | Dyn. load C<br>kN<br>max. | Weight<br>kg |
|-----------|-----|----------------|----|---------------------------|---------------------------|--------------|
| R4230.300 | 289 | 300            | 13 | 96.0                      | 26.0                      | 0.56         |
| R4230.310 | 299 | 310            | 13 | 99.2                      | 26.4                      | 0.58         |
| R4230.320 | 309 | 320            | 13 | 102.4                     | 26.8                      | 0.60         |
| R4230.330 | 319 | 330            | 13 | 105.6                     | 27.2                      | 0.61         |
| R4230.340 | 329 | 340            | 13 | 108.8                     | 27.7                      | 0.63         |
| R4230.350 | 339 | 350            | 13 | 112.0                     | 28.1                      | 0.65         |
| R4230.360 | 349 | 360            | 13 | 115.2                     | 28.5                      | 0.67         |
| R4230.370 | 359 | 370            | 13 | 118.4                     | 28.9                      | 0.69         |
| R4230.380 | 369 | 380            | 13 | 121.6                     | 29.2                      | 0.71         |
| R4230.390 | 379 | 390            | 13 | 124.8                     | 29.6                      | 0.73         |
| R4230.400 | 389 | 400            | 13 | 128.0                     | 30.0                      | 0.74         |
| R4230.410 | 399 | 410            | 13 | 131.2                     | 30.4                      | 0.76         |
| R4230.420 | 409 | 420            | 13 | 134.4                     | 30.8                      | 0.78         |
| R4230.430 | 419 | 430            | 13 | 137.6                     | 31.1                      | 0.80         |
| R4230.440 | 429 | 440            | 13 | 140.8                     | 31.5                      | 0.82         |
| R4230.450 | 439 | 450            | 13 | 144.0                     | 31.8                      | 0.84         |
| R4230.460 | 449 | 460            | 13 | 147.2                     | 32.2                      | 0.86         |
| R4230.470 | 459 | 470            | 13 | 150.4                     | 32.5                      | 0.87         |
| R4230.480 | 469 | 480            | 13 | 153.6                     | 32.9                      | 0.89         |
| R4230.490 | 479 | 490            | 13 | 156.8                     | 33.2                      | 0.91         |
| R4230.500 | 489 | 500            | 13 | 160.0                     | 33.5                      | 0.93         |
| R4230.510 | 499 | 510            | 13 | 163.2                     | 33.9                      | 0.95         |
| R4230.520 | 509 | 520            | 13 | 166.4                     | 34.2                      | 0.97         |
| R4230.530 | 519 | 530            | 13 | 169.6                     | 34.5                      | 0.99         |



### R4230



fitted dimensions



#### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

#### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

#### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Larger sizes on next page.

| Order No. | d   | D <sub>L</sub> | h  | Load C <sub>0</sub><br>kN | Dyn. load C<br>kN<br>max. | Weight<br>kg |
|-----------|-----|----------------|----|---------------------------|---------------------------|--------------|
| R4230.100 | 89  | 100            | 13 | 32.0                      | 15.0                      | 0.19         |
| R4230.105 | 94  | 105            | 13 | 33.6                      | 15.4                      | 0.20         |
| R4230.110 | 99  | 110            | 13 | 35.2                      | 15.7                      | 0.21         |
| R4230.115 | 104 | 115            | 13 | 36.8                      | 16.1                      | 0.21         |
| R4230.120 | 109 | 120            | 13 | 38.4                      | 16.4                      | 0.22         |
| R4230.125 | 114 | 125            | 13 | 40.0                      | 16.8                      | 0.23         |
| R4230.130 | 119 | 130            | 13 | 41.6                      | 17.1                      | 0.24         |
| R4230.135 | 124 | 135            | 13 | 43.2                      | 17.4                      | 0.25         |
| R4230.140 | 129 | 140            | 13 | 44.8                      | 17.7                      | 0.26         |
| R4230.145 | 134 | 145            | 13 | 46.4                      | 18.1                      | 0.27         |
| R4230.150 | 139 | 150            | 13 | 48.0                      | 18.4                      | 0.28         |
| R4230.155 | 144 | 155            | 13 | 49.6                      | 18.7                      | 0.29         |
| R4230.160 | 149 | 160            | 13 | 51.2                      | 19.0                      | 0.30         |
| R4230.165 | 154 | 165            | 13 | 52.8                      | 19.3                      | 0.31         |
| R4230.170 | 159 | 170            | 13 | 54.4                      | 19.6                      | 0.32         |
| R4230.175 | 164 | 175            | 13 | 56.0                      | 19.9                      | 0.33         |
| R4230.180 | 169 | 180            | 13 | 57.6                      | 20.1                      | 0.34         |
| R4230.185 | 174 | 185            | 13 | 59.2                      | 20.4                      | 0.34         |
| R4230.190 | 179 | 190            | 13 | 60.8                      | 20.7                      | 0.35         |
| R4230.195 | 184 | 195            | 13 | 62.4                      | 21.0                      | 0.36         |
| R4230.200 | 189 | 200            | 13 | 64.0                      | 21.2                      | 0.37         |
| R4230.205 | 194 | 205            | 13 | 65.6                      | 21.5                      | 0.38         |
| R4230.210 | 199 | 210            | 13 | 67.2                      | 21.7                      | 0.39         |
| R4230.215 | 204 | 215            | 13 | 68.8                      | 22.0                      | 0.40         |
| R4230.220 | 209 | 220            | 13 | 70.4                      | 22.3                      | 0.41         |
| R4230.225 | 214 | 225            | 13 | 72.0                      | 22.5                      | 0.42         |
| R4230.230 | 219 | 230            | 13 | 73.6                      | 22.8                      | 0.43         |
| R4230.235 | 224 | 235            | 13 | 75.2                      | 23.0                      | 0.44         |
| R4230.240 | 229 | 240            | 13 | 76.8                      | 23.2                      | 0.45         |
| R4230.245 | 234 | 245            | 13 | 78.4                      | 23.5                      | 0.46         |
| R4230.250 | 239 | 250            | 13 | 80.0                      | 23.7                      | 0.47         |

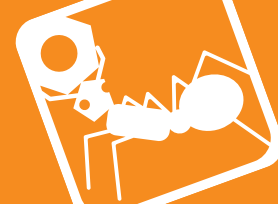


## Ball Bearing - Wire, Duo Profile

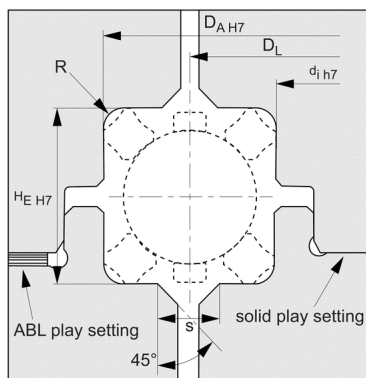
duo-profile, drawn raceway

## Ring Bearings

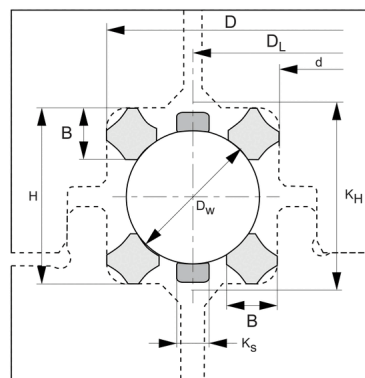
| Order No. | d   | D <sub>L</sub> | h  | Load C <sub>0</sub><br>kN | Dyn. load C<br>kN<br>max. | Weight<br>kg |
|-----------|-----|----------------|----|---------------------------|---------------------------|--------------|
| R4230.255 | 244 | 255            | 13 | 81.6                      | 24.0                      | 0.47         |
| R4230.260 | 249 | 260            | 13 | 83.2                      | 24.2                      | 0.48         |
| R4230.265 | 254 | 265            | 13 | 84.8                      | 24.4                      | 0.49         |
| R4230.270 | 259 | 270            | 13 | 86.4                      | 24.7                      | 0.50         |
| R4230.275 | 264 | 275            | 13 | 88.0                      | 24.9                      | 0.51         |
| R4230.280 | 269 | 280            | 13 | 89.6                      | 25.1                      | 0.52         |
| R4230.285 | 274 | 285            | 13 | 91.2                      | 25.3                      | 0.53         |
| R4230.290 | 279 | 290            | 13 | 92.8                      | 25.6                      | 0.54         |
| R4230.295 | 284 | 295            | 13 | 94.4                      | 25.8                      | 0.55         |



### R4240.1



fitted dimensions



#### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

#### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

#### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Smaller sizes on previous page.

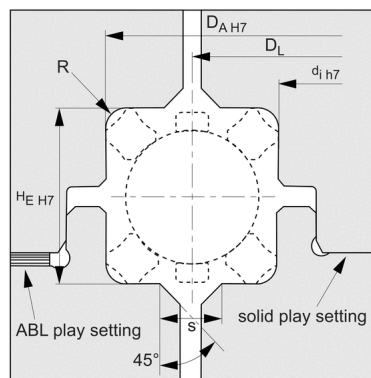
| Order No.  | d      | D <sub>L</sub> | h     | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>kg |
|------------|--------|----------------|-------|---------------------------|----------------------------------------|--------------|
| R4240.0300 | 287.05 | 300            | 12.95 | 26.0                      | 96.0                                   | 0.59         |
| R4240.0310 | 297.05 | 310            | 12.95 | 26.4                      | 99.2                                   | 0.61         |
| R4240.0320 | 307.05 | 320            | 12.95 | 26.8                      | 102.4                                  | 0.63         |
| R4240.0330 | 317.05 | 330            | 12.95 | 27.2                      | 105.6                                  | 0.65         |
| R4240.0340 | 327.05 | 340            | 12.95 | 27.7                      | 108.8                                  | 0.67         |
| R4240.0350 | 337.05 | 350            | 12.95 | 28.1                      | 112.0                                  | 0.69         |
| R4240.0360 | 347.05 | 360            | 12.95 | 28.5                      | 115.2                                  | 0.71         |
| R4240.0370 | 357.05 | 370            | 12.95 | 28.9                      | 118.4                                  | 0.73         |
| R4240.0380 | 367.05 | 380            | 12.95 | 29.2                      | 121.6                                  | 0.75         |
| R4240.0390 | 377.05 | 390            | 12.95 | 29.6                      | 124.8                                  | 0.76         |
| R4240.0400 | 387.05 | 400            | 12.95 | 30.0                      | 128.0                                  | 0.78         |
| R4240.0410 | 397.05 | 410            | 12.95 | 30.4                      | 131.2                                  | 0.80         |
| R4240.0420 | 407.05 | 420            | 12.95 | 30.8                      | 134.4                                  | 0.82         |
| R4240.0430 | 417.05 | 430            | 12.95 | 31.1                      | 137.6                                  | 0.84         |
| R4240.0440 | 427.05 | 440            | 12.95 | 31.5                      | 140.8                                  | 0.86         |
| R4240.0450 | 437.05 | 450            | 12.95 | 31.8                      | 144.0                                  | 0.88         |
| R4240.0460 | 447.05 | 460            | 12.95 | 32.2                      | 147.2                                  | 0.90         |
| R4240.0470 | 457.05 | 470            | 12.95 | 32.5                      | 150.4                                  | 0.92         |
| R4240.0480 | 467.05 | 480            | 12.95 | 32.9                      | 153.6                                  | 0.96         |
| R4240.0490 | 477.05 | 490            | 12.95 | 33.2                      | 156.8                                  | 0.96         |
| R4240.0500 | 487.05 | 500            | 12.95 | 33.5                      | 160.0                                  | 0.98         |
| R4240.0510 | 497.05 | 510            | 12.95 | 33.9                      | 163.2                                  | 1.00         |
| R4240.0520 | 507.05 | 520            | 12.95 | 34.2                      | 166.4                                  | 1.04         |
| R4240.0530 | 517.05 | 530            | 12.95 | 34.5                      | 169.6                                  | 1.04         |



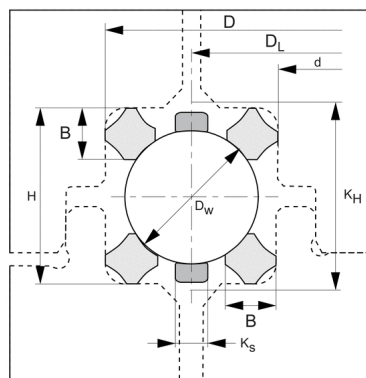
# Ball Bearing - Wire, Duplex Profile

duplex profile, drawn raceway

## Ring Bearings



fitted dimensions



R4240

RING BEARINGS

### Material

Hardened corrosion resistant steel wire and ball bearings (in plastic cage).

### Technical Notes

Play in the bearings can be adjusted via the

surface-solid settings or can be set by matching with spacers.

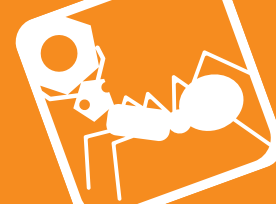
### Tips

Our wire bearings are compatible with most other manufacturers and are very cost

competitive. Please ask us to 'cross reference' if required.

Larger sizes on next page.

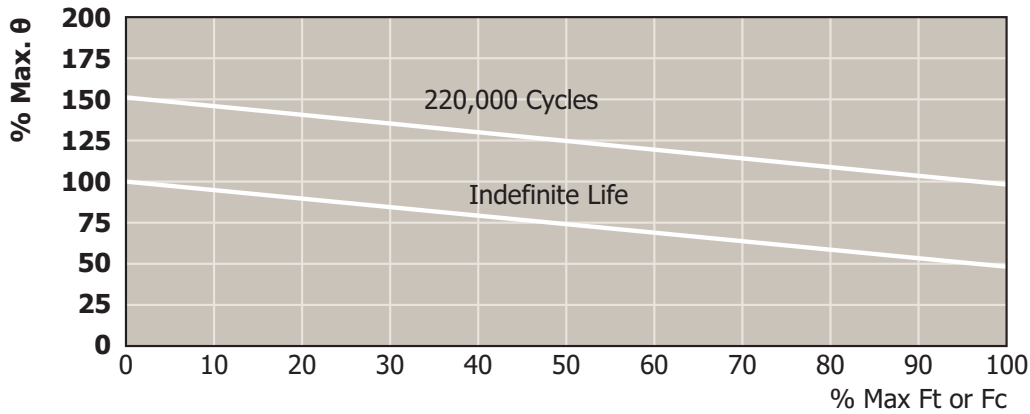
| Order No.  | d      | D <sub>L</sub> | h     | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>kg |
|------------|--------|----------------|-------|---------------------------|----------------------------------------|--------------|
| R4240.0100 | 87.05  | 100            | 12.95 | 15.0                      | 32.0                                   | 0.20         |
| R4240.0105 | 92.05  | 105            | 12.95 | 15.4                      | 33.6                                   | 0.21         |
| R4240.0110 | 97.05  | 110            | 12.95 | 15.7                      | 35.2                                   | 0.22         |
| R4240.0115 | 102.05 | 115            | 12.95 | 16.1                      | 36.8                                   | 0.23         |
| R4240.0120 | 107.05 | 120            | 12.95 | 16.4                      | 38.4                                   | 0.24         |
| R4240.0125 | 112.05 | 125            | 12.95 | 16.8                      | 40.0                                   | 0.25         |
| R4240.0130 | 117.05 | 130            | 12.95 | 17.1                      | 41.6                                   | 0.26         |
| R4240.0135 | 122.05 | 135            | 12.95 | 17.4                      | 43.2                                   | 0.27         |
| R4240.0140 | 127.05 | 140            | 12.95 | 17.7                      | 44.8                                   | 0.27         |
| R4240.0145 | 132.05 | 145            | 12.95 | 18.1                      | 46.4                                   | 0.28         |
| R4240.0150 | 137.05 | 150            | 12.95 | 18.4                      | 48.0                                   | 0.29         |
| R4240.0155 | 142.05 | 155            | 12.95 | 18.7                      | 49.6                                   | 0.30         |
| R4240.0160 | 147.05 | 160            | 12.95 | 19.0                      | 51.2                                   | 0.31         |
| R4240.0165 | 152.05 | 165            | 12.95 | 19.3                      | 52.8                                   | 0.32         |
| R4240.0170 | 157.05 | 170            | 12.95 | 19.6                      | 54.4                                   | 0.33         |
| R4240.0175 | 162.05 | 175            | 12.95 | 19.9                      | 56.0                                   | 0.34         |
| R4240.0180 | 167.05 | 180            | 12.95 | 20.1                      | 57.6                                   | 0.35         |
| R4240.0185 | 172.05 | 185            | 12.95 | 20.4                      | 59.2                                   | 0.36         |
| R4240.0190 | 177.05 | 190            | 12.95 | 20.7                      | 60.8                                   | 0.37         |
| R4240.0195 | 182.05 | 195            | 12.95 | 21.0                      | 62.4                                   | 0.38         |
| R4240.0200 | 187.05 | 200            | 12.95 | 21.2                      | 64.0                                   | 0.39         |
| R4240.0205 | 192.05 | 205            | 12.95 | 21.5                      | 65.6                                   | 0.40         |
| R4240.0210 | 197.05 | 210            | 12.95 | 21.7                      | 67.2                                   | 0.41         |
| R4240.0215 | 202.05 | 215            | 12.95 | 22.0                      | 68.8                                   | 0.42         |
| R4240.0220 | 207.05 | 220            | 12.95 | 22.3                      | 70.4                                   | 0.43         |
| R4240.0225 | 212.05 | 225            | 12.95 | 22.5                      | 72.0                                   | 0.44         |
| R4240.0230 | 217.05 | 230            | 12.95 | 22.8                      | 73.6                                   | 0.45         |
| R4240.0235 | 222.05 | 235            | 12.95 | 23.0                      | 75.2                                   | 0.46         |
| R4240.0240 | 227.05 | 240            | 12.95 | 23.2                      | 76.8                                   | 0.47         |
| R4240.0245 | 232.05 | 245            | 12.95 | 23.5                      | 78.4                                   | 0.48         |
| R4240.0250 | 237.05 | 250            | 12.95 | 23.7                      | 80.0                                   | 0.49         |



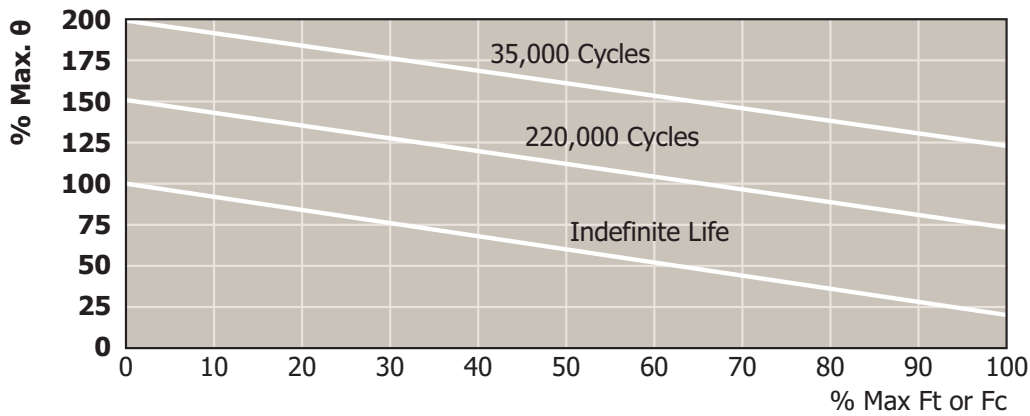
| Order No.  | d      | D <sub>L</sub> | h     | Dyn. load C<br>kN<br>max. | Dyn. load C <sub>0</sub><br>kN<br>max. | Weight<br>kg |
|------------|--------|----------------|-------|---------------------------|----------------------------------------|--------------|
| R4240.0255 | 242.05 | 255            | 12.95 | 24.0                      | 81.6                                   | 0.50         |
| R4240.0260 | 247.05 | 260            | 12.95 | 24.2                      | 83.2                                   | 0.51         |
| R4240.0265 | 252.05 | 265            | 12.95 | 24.4                      | 84.8                                   | 0.52         |
| R4240.0270 | 257.05 | 270            | 12.95 | 24.7                      | 86.4                                   | 0.53         |
| R4240.0275 | 262.05 | 275            | 12.95 | 24.9                      | 88.0                                   | 0.54         |
| R4240.0280 | 267.05 | 280            | 12.95 | 25.1                      | 89.6                                   | 0.55         |
| R4240.0285 | 272.05 | 285            | 12.95 | 25.3                      | 91.2                                   | 0.56         |
| R4240.0290 | 277.05 | 290            | 12.95 | 25.6                      | 92.8                                   | 0.57         |
| R4240.0295 | 282.05 | 295            | 12.95 | 25.8                      | 94.4                                   | 0.58         |

The cycle life of the bearings is based on the fatigue limit of the springs. The graphs below show the life expectancy for Torsional Spring Rates for Series 10, 20 and 30. Max  $\theta$  shows the angle of deflection. This is the deflection angle from the null position, which can be positive or negative.

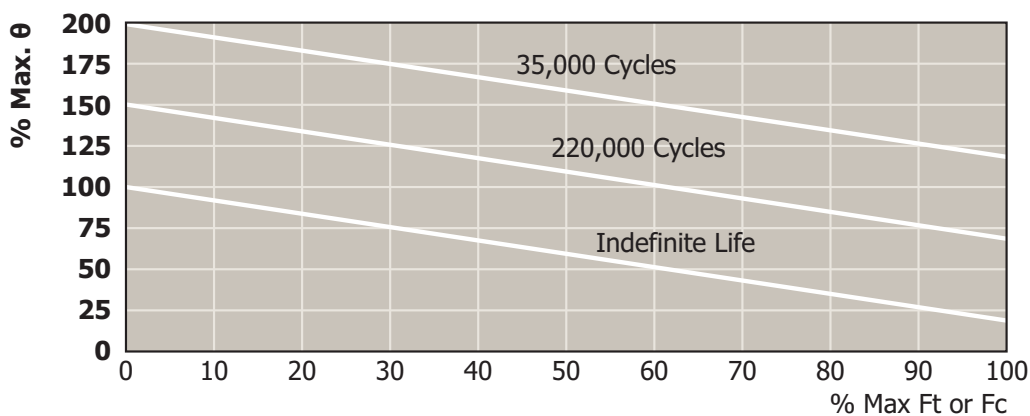
Series 10 - Max  $\theta \pm 15.0^\circ$



Series 20 - Max  $\theta \pm 7.5^\circ$



Series 30 - Max  $\theta \pm 3.7^\circ$



# Flexure Pivot Bearings from Automotion Components