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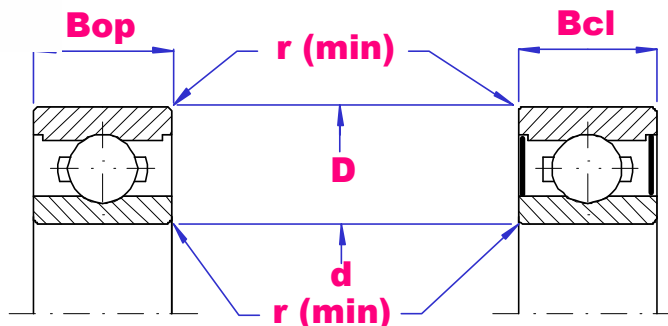
# UBC

## DEEP GROOVE BALL BEARINGS

### 1 - 4 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



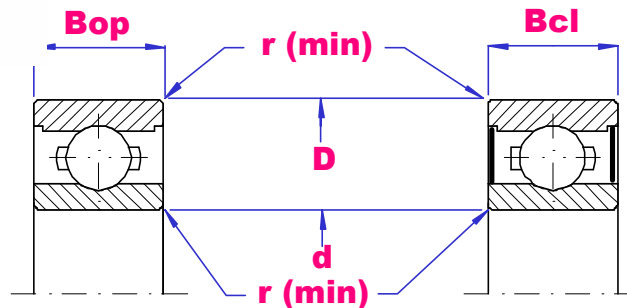
| PART NO | d mm | D mm | Bop mm | Bcl mm | rmin mm | Load D-kN | Load S-kN | Limiting speed |        |       | Wgt g |
|---------|------|------|--------|--------|---------|-----------|-----------|----------------|--------|-------|-------|
|         |      |      |        |        |         |           |           | Open/oil       | zz     | 2rs   |       |
| 681     | 1.0  | 3    | 1.0    | ----   | 0.05    | 0.03      | 0.02      | 150000         | 130000 | -     | 0.08  |
| MR31    |      | 3    | 1.5    | ----   | 0.05    | 0.03      | 0.02      | 150000         | 130000 | -     | 0.09  |
| 691     |      | 4    | 1.6    | ----   | 0.10    | 0.06      | 0.04      | 120000         | 100000 | -     | 0.10  |
| 68/1.5  | 1.5  | 4    | 1.2    | 2.0    | 0.05    | 0.06      | 0.04      | 120000         | 100000 | -     | 0.09  |
| 69/1.5  |      | 5    | 2.0    | 2.6    | 0.15    | 0.09      | 0.06      | 100000         | 85000  | -     | 0.20  |
| 60/1.5  |      | 6    | 2.5    | 3.0    | 0.15    | 0.13      | 0.09      | 90000          | 75000  | -     | 0.30  |
| 682     | 2.0  | 5    | 1.5    | 2.3    | 0.08    | 0.17      | 0.05      | 100000         | 85000  | -     | 0.17  |
| MR52    |      | 5    | 2.0    | 2.5    | 0.10    | 0.17      | 0.05      | 100000         | 85000  | -     | 0.23  |
| 692     |      | 6    | 2.3    | 3.0    | 0.15    | 0.33      | 0.098     | 90000          | 75000  | -     | 0.38  |
| MR62    |      | 6    | 2.5    | 2.5    | 0.15    | 0.33      | 0.098     | 90000          | 75000  | -     | 0.29  |
| MR72    |      | 7    | 2.5    | 3.0    | 0.15    | 0.38      | 0.127     | 75000          | 63000  | -     | 0.49  |
| 68/2.5  | 2.5  | 6    | 1.8    | 2.6    | 0.08    | 0.21      | 0.074     | 80000          | 71000  | -     | 0.29  |
| 69/2.5  |      | 7    | 2.5    | 3.5    | 0.15    | 0.38      | 0.127     | 75000          | 63000  | -     | 0.55  |
| MR8/2.5 |      | 8    | 2.5    | ----   | 0.20    | 0.56      | 0.179     | 67000          | 60000  | -     | 0.66  |
| 60/2.5  |      | 8    | 2.8    | 4.0    | 0.15    | 0.55      | 0.175     | 71000          | 60000  | -     | 0.83  |
| MR63    | 3    | 6    | 2.0    | 2.5    | 0.10    | 0.21      | 0.074     | 80000          | 71000  | -     | 0.27  |
| 683     |      | 7    | 2.0    | 3.0    | 0.10    | 0.31      | 0.111     | 75000          | 63000  | 36000 | 0.45  |
| MR83    |      | 8    | 2.5    | 3.0    | 0.15    | 0.56      | 0.179     | 67000          | 60000  | -     | 0.62  |
| 693     |      | 8    | 3.0    | 4.0    | 0.15    | 0.56      | 0.179     | 67000          | 60000  | 34000 | 0.83  |
| MR93    |      | 9    | 2.5    | 4.0    | 0.20    | 0.57      | 0.187     | 67000          | 56000  | -     | 1.18  |
| 603     |      | 9    | 3.0    | 5.0    | 0.15    | 0.57      | 0.187     | 67000          | 56000  | 32000 | 1.33  |
| 623     |      | 10   | 4.0    | 4.0    | 0.15    | 0.63      | 0.218     | 60000          | 50000  | 31000 | 1.66  |
| 633     |      | 13   | 5.0    | 5.0    | 0.20    | 1.30      | 0.485     | 48000          | 40000  | 30000 | 3.33  |
| MR74    | 4    | 7    | 2.0    | 2.5    | 0.10    | 0.31      | 0.115     | 67000          | 60000  | -     | 0.29  |
| MR84    |      | 8    | 2.0    | 3.0    | 0.15    | 0.39      | 0.139     | 67000          | 56000  | -     | 0.56  |
| 684     |      | 9    | 2.5    | 4.0    | 0.10    | 0.64      | 0.225     | 63000          | 53000  | 35000 | 1.01  |
| MR104   |      | 10   | 3      | 4.0    | 0.20    | 0.59      | 0.204     | 56000          | 48000  | -     | 1.36  |
| 694     |      | 11   | 4      | 4.0    | 0.15    | 0.96      | 0.345     | 56000          | 48000  | 33000 | 1.75  |
| 604     |      | 12   | 4      | 4.0    | 0.20    | 0.96      | 0.345     | 56000          | 48000  | 32000 | 2.29  |
| 624     |      | 13   | 5      | 5.0    | 0.20    | 1.30      | 0.485     | 48000          | 40000  | 30000 | 3.04  |
| 634     |      | 16   | 5      | 5.0    | 0.30    | 1.73      | 0.670     | 43000          | 36000  | 29000 | 5.21  |



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## DEEP GROOVE BALL BEARINGS

### 5 - 9 MM ID



| PART NO | d mm | D mm | Bop mm | Bcl mm | rmin mm | Load D-Kn | Load S-Kn | Limiting speed |       |       | Wgt g |
|---------|------|------|--------|--------|---------|-----------|-----------|----------------|-------|-------|-------|
|         |      |      |        |        |         |           |           | Open/oil       | zz    | 2rs   |       |
| MR85    | 5    | 8    | 2.0    | 2.5    | 0.10    | 0.311     | 0.120     | 63000          | 53000 | -     | 0.34  |
| MR95    |      | 9    | 2.5    | 3.0    | 0.15    | 0.431     | 0.168     | 60000          | 50000 | -     | 0.58  |
| MR105   |      | 10   | 3.0    | 4.0    | 0.15    | 0.431     | 0.168     | 60000          | 48000 | -     | 1.29  |
| 685     |      | 11   | 3.0    | 5.0    | 0.15    | 0.715     | 0.281     | 53000          | 45000 | 30000 | 1.96  |
| 695     |      | 13   | 4.0    | 4.0    | 0.20    | 1.08      | 0.430     | 50000          | 43000 | 28000 | 2.50  |
| 605     |      | 14   | 5.0    | 5.0    | 0.20    | 1.33      | 0.505     | 47000          | 40000 | 26000 | 3.48  |
| 625     |      | 16   | 5.0    | 5.0    | 0.30    | 1.73      | 0.670     | 43000          | 36000 | 24000 | 4.86  |
| 635     |      | 19   | 6.0    | 6.0    | 0.30    | 2.34      | 0.885     | 40000          | 32000 | 22000 | 8.34  |
| MR106   | 6    | 10   | 2.5    | 3.0    | 0.15    | 0.495     | 0.218     | 53000          | 45000 | -     | 0.68  |
| MR126   |      | 12   | 3.0    | 4.0    | 0.20    | 0.715     | 0.292     | 50000          | 43000 | -     | 1.74  |
| 686     |      | 13   | 3.5    | 5.0    | 0.15    | 1.08      | 0.440     | 48000          | 40000 | 28000 | 2.69  |
| 696     |      | 15   | 5.0    | 5.0    | 0.20    | 1.73      | 0.670     | 45000          | 38000 | 26000 | 3.72  |
| 606     |      | 17   | 6.0    | 6.0    | 0.30    | 2.26      | 0.835     | 40000          | 34000 | 24000 | 6.55  |
| 626     |      | 19   | 6.0    | 6.0    | 0.30    | 2.34      | 0.885     | 38000          | 32000 | 22000 | 7.94  |
| 636     |      | 22   | 7.0    | 7.0    | 0.30    | 3.30      | 1.375     | 36000          | 30000 | 20000 | 14.0  |
| MR117   | 7    | 11   | 2.5    | 3.0    | 0.15    | 0.455     | 0.201     | 50000          | 43000 | -     | 0.72  |
| MR137   |      | 13   | 3.0    | 4.0    | 0.20    | 0.54      | 0.276     | 48000          | 40000 | -     | 2.02  |
| 687     |      | 14   | 3.5    | 5.0    | 0.15    | 1.17      | 0.510     | 45000          | 38000 | 25000 | 2.97  |
| 697     |      | 17   | 5.0    | 5.0    | 0.30    | 1.61      | 0.710     | 43000          | 36000 | 23000 | 5.12  |
| 607     |      | 19   | 6.0    | 6.0    | 0.30    | 2.34      | 0.885     | 40000          | 34000 | 22000 | 7.51  |
| 627     |      | 22   | 7.0    | 7.0    | 0.30    | 3.30      | 1.37      | 36000          | 30000 | 20000 | 12.9  |
| 637     |      | 26   | 9.0    | 9.0    | 0.30    | 4.05      | 1.62      | 34000          | 28000 | 19000 | 25.0  |
| MR128   | 8    | 12   | 2.5    | 3.5    | 0.15    | 0.545     | 0.275     | 48000          | 40000 | -     | 0.97  |
| MR148   |      | 14   | 3.5    | 4.0    | 0.20    | 0.820     | 0.385     | 45000          | 38000 | -     | 2.16  |
| 688     |      | 16   | 4.0    | 5.0    | 0.20    | 1.26      | 0.590     | 43000          | 36000 | 24000 | 4.0   |
| 698     |      | 19   | 6.0    | 6.0    | 0.30    | 2.24      | 0.910     | 41000          | 34000 | 22000 | 7.18  |
| 608     |      | 22   | 7.0    | 7.0    | 0.30    | 3.30      | 1.37      | 39000          | 32000 | 20000 | 12.2  |
| 628     |      | 24   | 8.0    | 8.0    | 0.30    | 3.35      | 1.43      | 34000          | 28000 | 19000 | 17.4  |
| 638     |      | 28   | 9.0    | 9.0    | 0.30    | 4.55      | 1.97      | 30000          | 26000 | 18000 | 28.6  |
| 689     | 9    | 17   | 4.0    | 5.0    | 0.20    | 1.33      | 0.665     | 43000          | 36000 | 22000 | 4.43  |
| 699     |      | 20   | 6.0    | 6.0    | 0.30    | 1.72      | 0.840     | 40000          | 34000 | 20000 | 8.33  |
| 609     |      | 24   | 7.0    | 7.0    | 0.30    | 3.35      | 1.43      | 38000          | 32000 | 19000 | 14.7  |
| 629     |      | 26   | 8.0    | 8.0    | 0.30    | 4.55      | 1.97      | 33000          | 26000 | 18000 | 19.3  |
| 639     |      | 30   | 10.0   | 10.0   | 0.60    | 5.10      | 2.39      | 29000          | 24000 | 17000 | 36.0  |



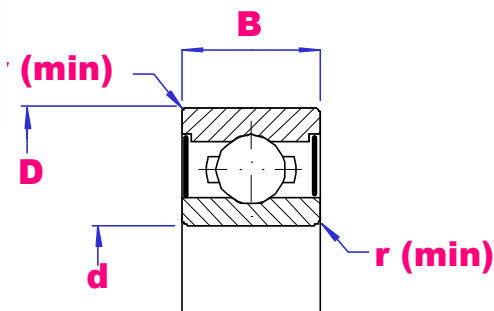
# UBC

## BALL BEARINGS

### 10 - 20 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



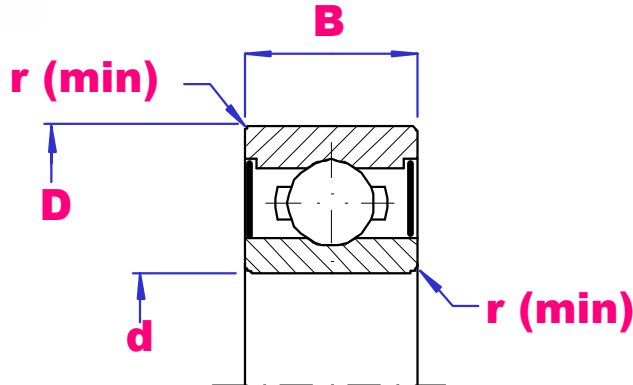
| PART NO | d mm | D mm | B mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting speed |       |       | Wgt g |
|---------|------|------|------|---------------------|-----------|-----------|----------------|-------|-------|-------|
|         |      |      |      |                     |           |           | Open/oil       | zz    | 2rs   |       |
| 6700    | 10   | 15   | 4    | 0.2                 | 1.01      | 0.555     | 48000          | 36000 | 26000 | 1.1   |
| 6800    |      | 19   | 5    | 0.3                 | 1.72      | 0.840     | 40000          | 34000 | 24000 | 5     |
| 6800B   |      | 19   | 7    | 0.3                 | 1.72      | 0.840     | 40000          | 34000 | 24000 | 7     |
| 6900    |      | 22   | 6    | 0.3                 | 2.70      | 1.270     | 38000          | 32000 | 22000 | 9     |
| 6000    |      | 26   | 8    | 0.3                 | 4.55      | 1.970     | 36000          | 30000 | 22000 | 18    |
| 6200    |      | 30   | 9    | 0.6                 | 5.10      | 2.390     | 30000          | 24000 | 18000 | 31    |
| 6300    |      | 35   | 11   | 0.6                 | 8.10      | 3.450     | 26000          | 22000 | 17000 | 51    |
| 6701    | 12   | 18   | 4    | 0.3                 | 1.07      | 0.655     | 44000          | 34000 | 22000 | 3     |
| 6801    |      | 21   | 5    | 0.3                 | 1.92      | 1.040     | 38000          | 32000 | 20000 | 6     |
| 6901    |      | 24   | 6    | 0.3                 | 2.89      | 1.460     | 36000          | 30000 | 20000 | 10    |
| 6001    |      | 28   | 8    | 0.3                 | 5.10      | 2.370     | 32000          | 28000 | 18000 | 22    |
| 6201    |      | 32   | 10   | 0.6                 | 6.80      | 3.050     | 28000          | 22000 | 17000 | 37    |
| 6301    |      | 37   | 12   | 1.0                 | 9.70      | 4.200     | 24000          | 20000 | 16000 | 60    |
| 6702    | 15   | 21   | 4    | 0.3                 | 1.15      | 0.790     | 40000          | 30000 | 18000 | 4     |
| 6802    |      | 24   | 5    | 0.3                 | 2.07      | 1.260     | 34000          | 28000 | 17000 | 7     |
| 6902    |      | 28   | 7    | 0.3                 | 4.35      | 2.260     | 30000          | 26000 | 17000 | 15    |
| 6002    |      | 32   | 9    | 0.3                 | 5.60      | 2.830     | 28000          | 24000 | 15000 | 31    |
| 6202    |      | 35   | 11   | 0.6                 | 7.65      | 3.750     | 24000          | 20000 | 14000 | 45    |
| 6302    |      | 42   | 13   | 1.0                 | 11.4      | 5.450     | 20000          | 17000 | 13000 | 83    |
| 6703    | 17   | 23   | 4    | 0.3                 | 1.20      | 0.865     | 34000          | 28000 | 16000 | 4     |
| 6803    |      | 26   | 5    | 0.3                 | 2.63      | 1.570     | 30000          | 26000 | 15000 | 7     |
| 6903    |      | 30   | 7    | 0.3                 | 4.60      | 2.550     | 28000          | 24000 | 15000 | 17    |
| 6003    |      | 35   | 10   | 0.3                 | 6.00      | 3.250     | 26000          | 22000 | 13000 | 41    |
| 6203    |      | 40   | 12   | 0.6                 | 9.55      | 4.800     | 20000          | 17000 | 12000 | 67    |
| 6303    |      | 47   | 14   | 1.0                 | 13.6      | 6.650     | 18000          | 15000 | 11000 | 113   |
| 6403    |      | 62   | 17   | 1.1                 | 22.5      | 11.45     | 17000          | 8500  | 7500  | 270   |
| 6704    | 20   | 27   | 4    | 0.3                 | 1.79      | 1.32      | 30000          | 24000 | 14000 | 5     |
| 6804    |      | 32   | 7    | 0.3                 | 4.00      | 3.47      | 26000          | 22000 | 13000 | 17    |
| 6904    |      | 37   | 9    | 0.3                 | 6.40      | 3.70      | 22000          | 19000 | 12000 | 37    |
| 6004    |      | 42   | 12   | 0.6                 | 9.40      | 5.00      | 20000          | 18000 | 11000 | 68    |
| 6204    |      | 47   | 14   | 1                   | 12.8      | 6.60      | 18000          | 15000 | 10500 | 107   |
| 6304    |      | 52   | 15   | 1.1                 | 15.9      | 7.90      | 17000          | 14000 | 10000 | 145   |
| 6404    |      | 72   | 19   | 1.1                 | 30.5      | 14.9      | 14000          | 6500  | 5500  | 415   |



# UBC

## DEEP GROOVE BALL BEARINGS

### 22 – 35 MM ID



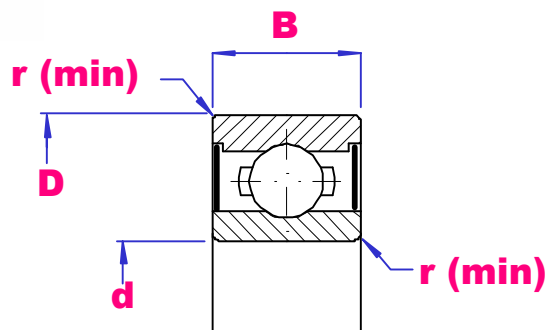
| PART NO | d mm | D mm | B mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting Speed |       |       | Wgt g |
|---------|------|------|------|---------------------|-----------|-----------|----------------|-------|-------|-------|
|         |      |      |      |                     |           |           | Open/oil       | zz    | 2rs   |       |
| 60/22   | 22   | 44   | 12   | 0.6                 | 9.40      | 5.05      | 20000          | 17000 | 11000 | 74    |
| 62/22   |      | 50   | 14   | 1.0                 | 12.9      | 6.80      | 16000          | 14000 | 9500  | 119   |
| 63/22   |      | 56   | 16   | 1.1                 | 18.4      | 9.25      | 14000          | 13000 | 8500  | 179   |
| 6705    | 25   | 32   | 4    | 0.3                 | 1.93      | 1.55      | 26000          | 20000 | 12000 | 6     |
| 6805    |      | 37   | 7    | 0.3                 | 4.30      | 2.95      | 22000          | 18000 | 10000 | 21    |
| 6905    |      | 42   | 9    | 0.3                 | 7.05      | 4.55      | 19000          | 16000 | 10000 | 42    |
| 6005    |      | 47   | 12   | 0.6                 | 10.1      | 5.85      | 18000          | 15000 | 9500  | 79    |
| 6205    |      | 52   | 15   | 1.0                 | 14.0      | 7.85      | 15000          | 13000 | 9000  | 129   |
| 6305    |      | 62   | 17   | 1.1                 | 20.6      | 11.2      | 13000          | 11000 | 8000  | 235   |
| 6405    |      | 80   | 21   | 1.5                 | 36.1      | 19.3      | 10000          | ----- | ----- | 561   |
| 60/28   | 28   | 52   | 12   | 0.6                 | 12.5      | 7.40      | 16000          | 14000 | 8500  | 96    |
| 62/28   |      | 58   | 16   | 1.0                 | 16.6      | 9.50      | 14000          | 12000 | 8000  | 175   |
| 63/28   |      | 68   | 18   | 1.1                 | 26.7      | 14.0      | 13000          | 10000 | 7500  | 287   |
| 6706    | 30   | 37   | 4    | 0.3                 | 2.05      | 1.78      | 24000          | 18000 | 10500 | 8     |
| 6806    |      | 42   | 7    | 0.3                 | 4.50      | 3.45      | 18000          | 15000 | 9000  | 24    |
| 6906    |      | 47   | 9    | 0.3                 | 7.25      | 5.00      | 17000          | 14000 | 8500  | 52    |
| 6006    |      | 55   | 13   | 1.0                 | 13.2      | 8.30      | 15000          | 13000 | 8000  | 116   |
| 6206    |      | 62   | 16   | 1.0                 | 19.5      | 11.3      | 13000          | 11000 | 7500  | 199   |
| 6306    |      | 72   | 19   | 1.1                 | 26.7      | 15.1      | 12000          | 9500  | 6700  | 345   |
| 6406    |      | 90   | 23   | 1.5                 | 42.4      | 23.2      | 9500           | ----- | ----- | 762   |
| 60/32   | 32   | 58   | 13   | 1.0                 | 15.1      | 9.15      | 14000          | 12000 | 7500  | 122   |
| 62/32   |      | 65   | 17   | 1.0                 | 20.7      | 11.6      | 12000          | 10000 | 7100  | 225   |
| 63/32   |      | 75   | 20   | 1.1                 | 29.9      | 16.9      | 11000          | 9000  | 6300  | 389   |
| 6707    | 35   | 44   | 5    | 0.3                 | 2.38      | 2.15      | 20000          | 15000 | 9000  | 11    |
| 6807    |      | 47   | 7    | 0.3                 | 4.75      | 3.90      | 16000          | 13000 | 7500  | 27    |
| 6907    |      | 55   | 10   | 0.6                 | 10.6      | 7.25      | 15000          | 12000 | 7100  | 75    |
| 6007    |      | 62   | 14   | 1.0                 | 16.0      | 10.3      | 13000          | 11000 | 6700  | 151   |
| 6207    |      | 72   | 17   | 1.1                 | 25.7      | 15.3      | 11000          | 9500  | 6300  | 284   |
| 6307    |      | 80   | 21   | 1.5                 | 33.5      | 19.2      | 10000          | 8500  | 6000  | 464   |
| 6407    |      | 100  | 25   | 1.5                 | 52.9      | 31.5      | 9000           | ----- | ----- | 971   |



# UBC

## DEEP GROOVE BALL BEARINGS

### 40 – 60 MM ID



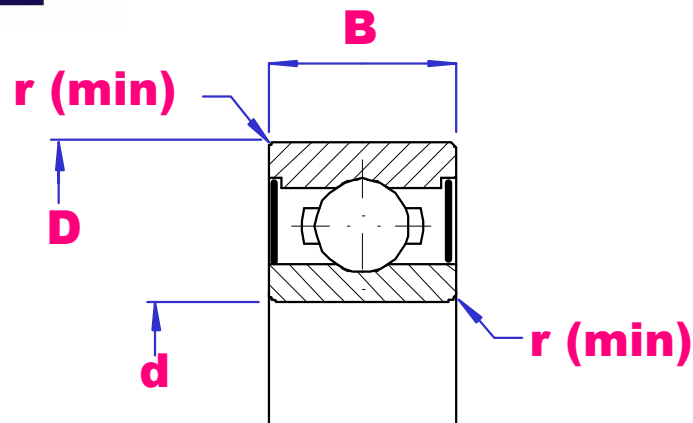
| PART NO | d mm | D mm | B mm | rmin mm | Load D-kN | Load S-kN | Limiting speed |       |       | Wgt g |
|---------|------|------|------|---------|-----------|-----------|----------------|-------|-------|-------|
|         |      |      |      |         |           |           | Open/oil       | zz    | 2rs   |       |
| 6708    | 40   | 50   | 6    | 0.3     | 3.12      | 2.68      | 17000          | 15000 | 8000  | 18    |
| 6808    |      | 52   | 7    | 0.3     | 4.90      | 4.35      | 14000          | 12000 | 6700  | 31    |
| 6908    |      | 62   | 12   | 0.6     | 13.7      | 10.1      | 13000          | 11000 | 6300  | 112   |
| 6008    |      | 68   | 15   | 1.0     | 16.8      | 11.5      | 12000          | 10000 | 6000  | 191   |
| 6208    |      | 80   | 18   | 1.1     | 29.1      | 17.8      | 10000          | 8500  | 5600  | 366   |
| 6308    |      | 90   | 23   | 1.5     | 40.5      | 23.9      | 9000           | 7500  | 5300  | 636   |
| 6408    |      | 110  | 27   | 2.0     | 61.9      | 38.1      | 7000           | ----- | ----- | 1121  |
| 6809    | 45   | 58   | 7    | 0.3     | 5.35      | 5.25      | 13000          | 11000 | 6000  | 38    |
| 6909    |      | 68   | 12   | 0.6     | 14.1      | 10.9      | 12000          | 9500  | 5600  | 126   |
| 6009    |      | 75   | 16   | 1.0     | 20.9      | 15.2      | 11000          | 9000  | 5300  | 241   |
| 6209    |      | 85   | 19   | 1.1     | 31.5      | 20.4      | 9000           | 7500  | 5100  | 419   |
| 6309    |      | 100  | 25   | 1.5     | 53.0      | 32.1      | 8000           | 6700  | 4800  | 829   |
| 6409    |      | 120  | 29   | 2.0     | 76.5      | 47.5      | 6500           | ----- | ----- | 1510  |
| 6810    | 50   | 65   | 7    | 0.3     | 6.42      | 6.19      | 11000          | 9500  | 5300  | 51    |
| 6910    |      | 72   | 12   | 0.6     | 14.5      | 11.7      | 10500          | 9000  | 5200  | 135   |
| 6010    |      | 80   | 16   | 1.0     | 21.8      | 16.6      | 10000          | 8500  | 4800  | 261   |
| 6210    |      | 90   | 20   | 1.1     | 36.5      | 23.2      | 8500           | 7100  | 4600  | 459   |
| 6310    |      | 110  | 27   | 2.0     | 62.2      | 38.5      | 7500           | 6000  | 4300  | 1061  |
| 6410    |      | 130  | 31   | 2.1     | 81.5      | 51.9      | 6000           | ----- | ----- | 1830  |
| 6811    | 55   | 72   | 9    | 0.3     | 8.80      | 8.51      | 10000          | 8500  | 4800  | 81    |
| 6911    |      | 80   | 13   | 1.0     | 16.0      | 13.3      | 9500           | 8000  | 4500  | 189   |
| 6011    |      | 90   | 18   | 1.1     | 28.3      | 21.2      | 9000           | 7500  | 4400  | 381   |
| 6211    |      | 100  | 21   | 1.5     | 43.5      | 29.3      | 7500           | 6300  | 4300  | 619   |
| 6311    |      | 120  | 29   | 2.0     | 71.5      | 44.5      | 6700           | 5600  | 4000  | 1371  |
| 6411    |      | 140  | 33   | 2.1     | 93.1      | 60.1      | 5500           | ----- | ----- | 2381  |
| 6812    | 60   | 78   | 10   | 0.3     | 11.5      | 10.9      | 9500           | 8000  | 4500  | 103   |
| 6912    |      | 85   | 13   | 1.0     | 19.4      | 16.3      | 9000           | 7500  | 4300  | 192   |
| 6012    |      | 95   | 18   | 1.1     | 29.5      | 17.5      | 8500           | 7100  | 4000  | 412   |
| 6212    |      | 110  | 22   | 1.5     | 52.5      | 36.1      | 7100           | 5600  | 3800  | 783   |
| 6312    |      | 130  | 31   | 2.1     | 82.1      | 51.9      | 6300           | 5300  | 3600  | 1718  |
| 6412    |      | 150  | 35   | 2.1     | 104       | 67.9      | 5200           | ----- | ----- | 2888  |



# UBC

## DEEP GROOVE BALL BEARINGS

### 65 – 85 MM ID



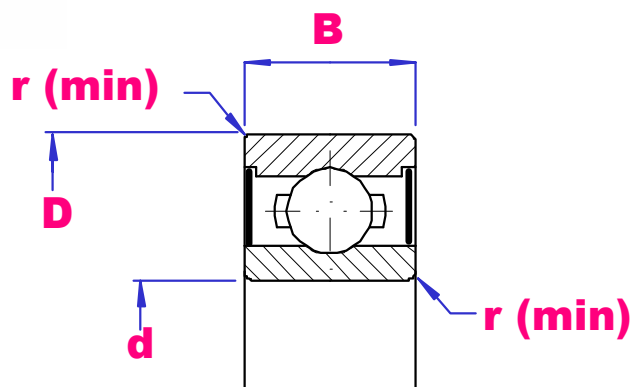
| PART NO | d mm | D mm | B mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting speed |       |       | Wgt g |
|---------|------|------|------|---------------------|-----------|-----------|----------------|-------|-------|-------|
|         |      |      |      |                     |           |           | Open/oil       | zz    | 2rs   |       |
| 6813    | 65   | 85   | 10   | 0.6                 | 11.9      | 12.1      | 8500           | 7500  | ----- | 128   |
| 6913    |      | 90   | 13   | 1.0                 | 17.4      | 16.1      | 8300           | 7100  | 4000  | 218   |
| 6013    |      | 100  | 18   | 1.1                 | 30.5      | 25.2      | 8000           | 6700  | 4000  | 439   |
| 6213    |      | 120  | 23   | 1.5                 | 57.5      | 39.9      | 6300           | 5300  | 3600  | 1015  |
| 6313    |      | 140  | 33   | 2.1                 | 92.5      | 60.1      | 6000           | 4800  | 3400  | 2112  |
| 6413    |      | 160  | 37   | 2.1                 | 114       | 76.5      | 4800           | ----- | ----- | 3495  |
| 6814    | 70   | 90   | 10   | 0.6                 | 12.1      | 12.7      | 8000           | 6700  | ----- | 134   |
| 6914    |      | 100  | 16   | 1.0                 | 23.7      | 21.2      | 7500           | 6300  | 3600  | 349   |
| 6014    |      | 110  | 20   | 1.1                 | 37.9      | 31.1      | 7100           | 6000  | 3500  | 608   |
| 6214    |      | 125  | 24   | 1.5                 | 61.9      | 43.9      | 6000           | 5000  | 3400  | 1092  |
| 6314    |      | 150  | 35   | 2.1                 | 104       | 68.1      | 5300           | 4500  | 3200  | 2572  |
| 6414    |      | 180  | 42   | 3.0                 | 132       | 96.5      | 4300           | ----- | ----- | 5065  |
| 6815    | 75   | 95   | 10   | 0.6                 | 12.5      | 13.9      | 7500           | 6300  | ----- | 149   |
| 6915    |      | 105  | 16   | 1.0                 | 24.4      | 22.6      | 7100           | 6000  | ----- | 364   |
| 6015    |      | 115  | 20   | 1.1                 | 39.5      | 33.5      | 6700           | 5600  | 3400  | 649   |
| 6215    |      | 130  | 25   | 1.5                 | 65.9      | 49.5      | 5600           | 4800  | 3200  | 1192  |
| 6315    |      | 160  | 37   | 2.1                 | 113       | 77.1      | 5000           | 4300  | 2800  | 3095  |
| 6415    |      | 190  | 45   | 3.0                 | 142       | 106       | 4000           | ----- | ----- | 7012  |
| 6816    | 80   | 100  | 10   | 0.6                 | 12.7      | 14.5      | 7100           | 6000  | ----- | 151   |
| 6916    |      | 110  | 16   | 1.0                 | 25.1      | 23.9      | 6700           | 5600  | 3200  | 391   |
| 6016    |      | 125  | 22   | 1.1                 | 47.5      | 39.9      | 6300           | 5300  | 3100  | 872   |
| 6216    |      | 140  | 26   | 2.0                 | 72.5      | 52.9      | 5300           | 4500  | 3000  | 1425  |
| 6316    |      | 170  | 39   | 2.1                 | 123       | 86.5      | 4800           | 4000  | 2800  | 3672  |
| 6817    | 85   | 110  | 13   | 1.0                 | 18.7      | 19.9      | 6700           | 5600  | ----- | 263   |
| 6917    |      | 120  | 18   | 1.1                 | 32.1      | 29.6      | 6300           | 5300  | ----- | 551   |
| 6017    |      | 130  | 22   | 1.1                 | 49.5      | 42.9      | 6000           | 5000  | 3000  | 918   |
| 6217    |      | 150  | 28   | 2.0                 | 84.1      | 62.1      | 5000           | 4300  | 2800  | 1759  |
| 6317    |      | 180  | 41   | 3.0                 | 133       | 96.9      | 4500           | 3800  | 2600  | 4282  |



# UBC

## DEEP GROOVE BALL BEARINGS

### 90 – 120 MM ID



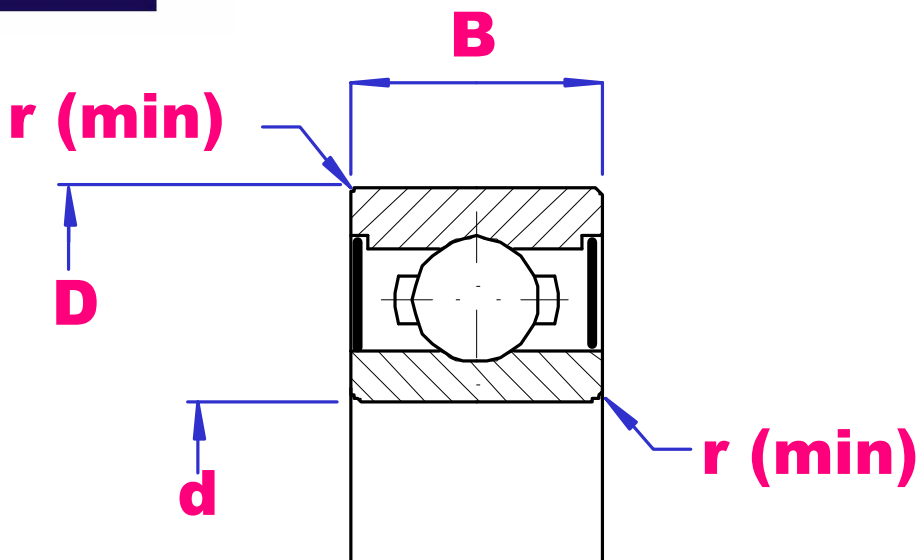
| PART NO | d mm | D mm | B mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting speed |      |       | Wgt kg |
|---------|------|------|------|---------------------|-----------|-----------|----------------|------|-------|--------|
|         |      |      |      |                     |           |           | Open/oil       | zz   | 2rs   |        |
| 6818    | 90   | 115  | 13   | 1.0                 | 19.1      | 21.1      | 6300           | 5300 | 3100  | 0.276  |
| 6918    |      | 125  | 18   | 1.1                 | 32.9      | 31.5      | 6000           | 5000 | 2800  | 0.585  |
| 6018    |      | 140  | 24   | 1.5                 | 57.9      | 49.9      | 5600           | 4800 | 2700  | 1.19   |
| 6218    |      | 160  | 30   | 2.0                 | 96.0      | 71.5      | 4800           | 4000 | 2600  | 2.18   |
| 6318    |      | 190  | 43   | 3.0                 | 143       | 107       | 4300           | 3600 | 2400  | 4.98   |
| 6819    | 95   | 120  | 13   | 1.0                 | 19.3      | 22.0      | 6000           | 5000 | 2900  | 0.297  |
| 6919    |      | 130  | 18   | 1.1                 | 33.5      | 33.5      | 5600           | 4800 | 2700  | 0.601  |
| 6019    |      | 145  | 24   | 1.5                 | 60.5      | 54.0      | 5300           | 4500 | 2600  | 1.23   |
| 6219    |      | 170  | 32   | 2.1                 | 109       | 82.1      | 4500           | 3800 | 2500  | 2.64   |
| 6319    |      | 200  | 45   | 3.0                 | 153       | 119       | 3600           | 3000 | 2400  | 5.76   |
| 6820    | 100  | 125  | 13   | 1.0                 | 19.6      | 23.0      | 5600           | 4800 | ----- | 0.311  |
| 6920    |      | 140  | 20   | 1.1                 | 43.1      | 42.1      | 5300           | 4500 | 2600  | 0.828  |
| 6020    |      | 150  | 24   | 1.5                 | 60.5      | 54.1      | 5200           | 4300 | 2500  | 1.29   |
| 6220    |      | 180  | 34   | 2.1                 | 122       | 93.1      | 5100           | 3600 | 2400  | 3.17   |
| 6320    |      | 215  | 47   | 3.0                 | 173       | 141       | 3400           | 2800 | 2200  | 7.04   |
| 6821    | 105  | 130  | 13   | 1.0                 | 19.8      | 23.9      | 5600           | 4800 | ----- | 0.324  |
| 6921    |      | 145  | 20   | 1.1                 | 42.5      | 42.0      | 5300           | 4300 | ----- | 0.856  |
| 6021    |      | 160  | 26   | 2.0                 | 72.5      | 66.1      | 4800           | 4000 | ----- | 1.58   |
| 6221    |      | 190  | 36   | 2.1                 | 133       | 105       | 4000           | 3400 | 2200  | 3.79   |
| 6321    |      | 225  | 49   | 3.0                 | 184       | 154       | 3200           | 2600 | 2000  | 8.09   |
| 6822    | 110  | 140  | 16   | 1.0                 | 28.1      | 32.5      | 5300           | 4300 | ----- | 0.497  |
| 6922    |      | 150  | 20   | 1.1                 | 43.5      | 44.5      | 5000           | 4200 | ----- | 0.893  |
| 6022    |      | 170  | 28   | 2.0                 | 85.1      | 73.0      | 4500           | 3800 | 2200  | 1.94   |
| 6222    |      | 200  | 38   | 2.1                 | 144       | 117       | 3400           | 2800 | 2000  | 4.45   |
| 6322    |      | 240  | 50   | 3.0                 | 205       | 179       | 3000           | 2400 | ----- | 9.51   |
| 6824    | 120  | 150  | 16   | 1.0                 | 28.9      | 35.5      | 4800           | 4000 | ----- | 0.537  |
| 6924    |      | 165  | 22   | 1.1                 | 53.1      | 54.0      | 4500           | 3800 | ----- | 1.21   |
| 6024    |      | 180  | 28   | 2.0                 | 87.9      | 80.1      | 4300           | 3600 | 2100  | 2.08   |
| 6224    |      | 215  | 40   | 2.1                 | 155       | 131       | 3200           | 2600 | 1900  | 5.29   |
| 6324    |      | 260  | 55   | 3.0                 | 207       | 185       | 2800           | 2200 | 1800  | 12.5   |



# UBC

## DEEP GROOVE BALL BEARINGS

### 130 – 160 MM ID



| PART NO | d mm | D mm | B mm | rmin mm | Load D-kN | Load S-kN | Limiting speed |      |       | Wgt kg |
|---------|------|------|------|---------|-----------|-----------|----------------|------|-------|--------|
|         |      |      |      |         |           |           | Open           | zz   | 2rs   |        |
| 6826    | 130  | 165  | 18   | 1.1     | 36.9      | 43.9      | 4300           | 3600 | ----- | 0.758  |
| 6926    |      | 180  | 24   | 1.5     | 65.1      | 67.5      | 4000           | 3400 | ----- | 1.57   |
| 6026    |      | 200  | 33   | 2.0     | 106       | 101       | 3600           | 3000 | ----- | 3.26   |
| 6226    |      | 230  | 40   | 3.0     | 167       | 146       | 3000           | 2400 | ----- | 5.96   |
| 6326    |      | 280  | 58   | 4.0     | 229       | 214       | 2600           | 2200 | ----- | 15.2   |
| 6828    | 140  | 175  | 18   | 1.1     | 38.5      | 48.0      | 4000           | 3400 | ----- | 0.832  |
| 6928    |      | 190  | 24   | 1.5     | 66.5      | 72.0      | 3800           | 3200 | ----- | 1.67   |
| 6028    |      | 210  | 33   | 2.0     | 110       | 109       | 3400           | 2800 | ----- | 3.48   |
| 6228    |      | 250  | 42   | 3.0     | 166       | 150       | 2800           | 2200 | ----- | 7.68   |
| 6328    |      | 300  | 62   | 4.0     | 253       | 246       | 2400           | 2000 | ----- | 18.5   |
| 6830    | 150  | 190  | 20   | 1.1     | 47.5      | 58.5      | 3800           | 3200 | ----- | 1.15   |
| 6930    |      | 210  | 28   | 2.0     | 85.1      | 90.5      | 3200           | 2600 | ----- | 3.01   |
| 6030    |      | 225  | 35   | 2.1     | 126       | 126       | 3000           | 2400 | ----- | 4.24   |
| 6230    |      | 270  | 45   | 3.0     | 176       | 168       | 2600           | 2000 | ----- | 10.0   |
| 6330    |      | 320  | 65   | 4.0     | 274       | 234       | 2200           | 1800 | ----- | 22.7   |
| 6832    | 160  | 200  | 20   | 1.1     | 48.5      | 61.0      | 3200           | 2600 | ----- | 1.42   |
| 6932    |      | 220  | 28   | 2.0     | 87.1      | 96.0      | 3000           | 2400 | ----- | 3.16   |
| 6032    |      | 240  | 38   | 2.1     | 137       | 135       | 2800           | 2200 | ----- | 5.15   |
| 6232    |      | 290  | 48   | 3.0     | 185       | 186       | 2400           | 1900 | ----- | 12.8   |
| 6332    |      | 340  | 68   | 4.0     | 278       | 287       | 2000           | 1700 | ----- | 26.2   |

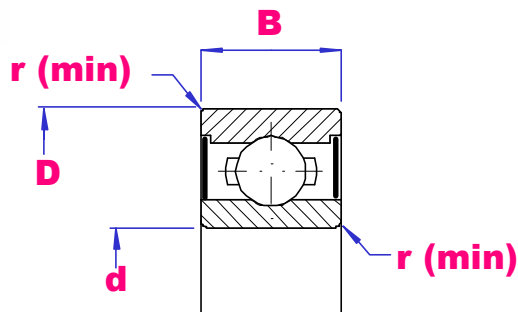


# UBC

## 16000 SERIES BALL BEARINGS 12 – 200 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| PART NO | d mm | D mm | B mm | rmin mm | Load D-kN | Load S-kN | Limiting speed |       | Wgt g |
|---------|------|------|------|---------|-----------|-----------|----------------|-------|-------|
|         |      |      |      |         |           |           | Open           | zz    |       |
| 16001   | 12   | 28   | 7    | 0.3     | 5.11      | 2.37      | 32000          | 28000 | 19    |
| 16002   | 15   | 32   | 8    | 0.3     | 5.59      | 2.83      | 28000          | 24000 | 27    |
| 16003   | 17   | 35   | 8    | 0.3     | 6.01      | 3.25      | 26000          | 22000 | 33    |
| 16004   | 20   | 42   | 8    | 0.3     | 7.91      | 4.45      | 20000          | 18000 | 48    |
| 16005   | 25   | 47   | 8    | 0.3     | 8.85      | 5.61      | 18000          | 15000 | 59    |
| 16006   | 30   | 55   | 9    | 0.3     | 11.2      | 7.35      | 15000          | 13000 | 87    |
| 16007   | 35   | 62   | 9    | 0.3     | 11.7      | 8.20      | 13000          | 11000 | 107   |
| 16008   | 40   | 68   | 9    | 0.3     | 12.6      | 9.65      | 12000          | 10000 | 131   |
| 16009   | 45   | 75   | 10   | 0.6     | 14.9      | 11.4      | 11000          | 9000  | 167   |
| 16010   | 50   | 80   | 10   | 0.6     | 15.4      | 12.4      | 10000          | 8500  | 175   |
| 16011   | 55   | 90   | 11   | 0.6     | 19.4      | 16.3      | 9000           | -     | 257   |
| 16012   | 60   | 95   | 11   | 0.6     | 20.2      | 17.5      | 8500           | -     | 281   |
| 16013   | 65   | 100  | 11   | 0.6     | 20.5      | 18.7      | 8000           | -     | 301   |
| 16014   | 70   | 110  | 13   | 0.6     | 26.8      | 23.6      | 7100           | -     | 437   |
| 16015   | 75   | 115  | 13   | 0.6     | 27.6      | 25.3      | 6700           | -     | 463   |
| 16016   | 80   | 125  | 14   | 0.6     | 32        | 31        | 6300           | -     | 607   |
| 16017   | 85   | 130  | 14   | 0.6     | 34        | 33.5      | 6000           | -     | 621   |
| 16018   | 90   | 140  | 16   | 1.0     | 41.5      | 39        | 5600           | -     | 853   |
| 16019   | 95   | 145  | 16   | 1.0     | 43        | 40.5      | 5300           | -     | 880   |
| 16020   | 100  | 150  | 16   | 1.0     | 44        | 44        | 5200           | -     | 947   |
| 16021   | 105  | 160  | 18   | 1.0     | 54        | 54        | 4800           | -     | 1200  |
| 16022   | 110  | 170  | 19   | 1.0     | 57.2      | 57        | 4500           | -     | 1450  |
| 16024   | 120  | 180  | 19   | 1.0     | 60.5      | 64        | 4000           | -     | 1610  |
| 16026   | 130  | 200  | 22   | 1.1     | 79.3      | 81.5      | 3800           | -     | 2350  |
| 16028   | 140  | 210  | 22   | 1.1     | 80.6      | 86.5      | 3600           | -     | 2520  |
| 16030   | 150  | 225  | 24   | 1.1     | 92.3      | 98        | 3200           | -     | 3150  |
| 16032   | 160  | 240  | 25   | 1.5     | 99.5      | 108       | 3000           | -     | 3250  |
| 16034   | 170  | 260  | 28   | 1.5     | 119       | 129       | 2800           | -     | 3420  |
| 16036   | 180  | 280  | 31   | 1.5     | 138       | 146       | 2600           | -     | 6600  |
| 16038   | 190  | 290  | 31   | 2.0     | 148       | 166       | 2500           | -     | 7930  |
| 16040   | 200  | 310  | 34   | 2.0     | 168       | 190       | 2400           | -     | 8850  |



# UBC

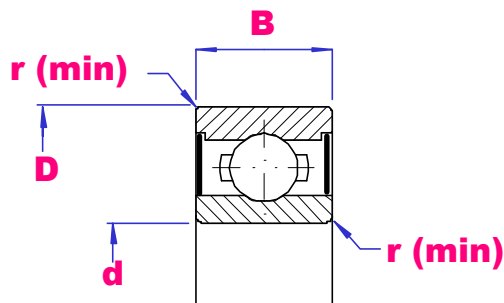
## 630/622/62300

### BALL BEARINGS

### 10 – 50 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818

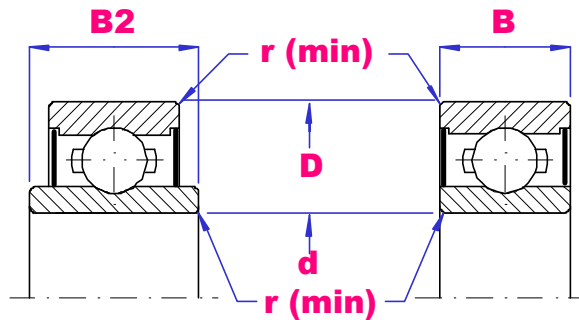


| PART NO | d<br>mm | D<br>mm | B<br>mm | rmin<br>mm | Load<br>D-kN | Load<br>S-kN | Limiting speed<br>Open/oil 2rs |       | Wgt<br>g |
|---------|---------|---------|---------|------------|--------------|--------------|--------------------------------|-------|----------|
| 63000   | 10      | 26      | 12      | 0.3        | 4.55         | 1.97         | 36000                          | 22000 | 25       |
| 62200   |         | 30      | 14      | 0.6        | 5.10         | 2.39         | 30000                          | 18000 | 40       |
| 63001   | 12      | 28      | 12      | 0.3        | 5.10         | 2.37         | 32000                          | 18000 | 29       |
| 62201   |         | 32      | 14      | 0.6        | 6.80         | 3.05         | 28000                          | 17000 | 45       |
| 62301   |         | 37      | 17      | 1.0        | 7.60         | 1.65         | 24000                          | 14000 | 70       |
| 63002   | 15      | 32      | 13      | 0.3        | 5.60         | 2.83         | 28000                          | 15000 | 39       |
| 62202   |         | 35      | 14      | 0.6        | 7.65         | 3.75         | 24000                          | 14000 | 54       |
| 62302   |         | 42      | 17      | 1.0        | 11.4         | 5.45         | 20000                          | 13000 | 110      |
| 63003   | 17      | 35      | 14      | 0.3        | 6.00         | 3.25         | 26000                          | 13000 | 52       |
| 62203   |         | 40      | 16      | 0.6        | 9.55         | 4.80         | 20000                          | 12000 | 83       |
| 62303   |         | 47      | 19      | 1.0        | 13.6         | 6.65         | 18000                          | 11000 | 152      |
| 63004   | 20      | 42      | 16      | 0.6        | 9.40         | 5.00         | 20000                          | 11000 | 86       |
| 62204   |         | 47      | 18      | 1.0        | 12.8         | 6.60         | 18000                          | 10500 | 130      |
| 62304   |         | 52      | 21      | 1.1        | 15.9         | 7.90         | 17000                          | 10000 | 235      |
| 63005   | 25      | 47      | 16      | 0.6        | 10.1         | 5.85         | 18000                          | 9500  | 102      |
| 62205   |         | 52      | 18      | 1.0        | 14.0         | 7.85         | 15000                          | 9000  | 152      |
| 62305   |         | 62      | 24      | 1.1        | 20.6         | 11.2         | 13000                          | 8000  | 325      |
| 63006   | 30      | 55      | 19      | 1.0        | 13.2         | 8.30         | 15000                          | 8000  | 163      |
| 62206   |         | 62      | 20      | 1.0        | 19.5         | 11.3         | 13000                          | 7500  | 244      |
| 62306   |         | 72      | 27      | 1.1        | 26.7         | 15.1         | 12000                          | 6700  | 485      |
| 63007   | 35      | 62      | 20      | 1.0        | 16.0         | 10.3         | 13000                          | 6700  | 216      |
| 62207   |         | 72      | 23      | 1.1        | 25.7         | 15.3         | 11000                          | 6300  | 377      |
| 62307   |         | 80      | 31      | 1.5        | 33.5         | 19.2         | 10000                          | 6000  | 668      |
| 63008   | 40      | 68      | 21      | 1.0        | 16.8         | 11.5         | 12000                          | 6000  | 261      |
| 62208   |         | 80      | 23      | 1.1        | 29.1         | 17.8         | 10000                          | 5600  | 442      |
| 62308   |         | 90      | 33      | 1.5        | 40.5         | 23.9         | 9000                           | 5300  | 895      |
| 63009   | 45      | 75      | 23      | 1.0        | 20.9         | 15.2         | 11000                          | 5300  | 340      |
| 62209   |         | 85      | 23      | 1.1        | 31.5         | 20.4         | 9000                           | 5100  | 485      |
| 62309   |         | 100     | 36      | 1.5        | 53.0         | 32.1         | 8000                           | 4800  | 1150     |
| 63010   | 50      | 80      | 23      | 1.0        | 21.8         | 16.6         | 10000                          | 4800  | 375      |
| 62210   |         | 90      | 23      | 1.1        | 36.5         | 23.2         | 8500                           | 4600  | 525      |
| 62310   |         | 110     | 40      | 2.0        | 62.2         | 38.5         | 7500                           | 4300  | 1555     |



# UBC

## DEEP GROOVE NON STANDARD BALL BEARINGS

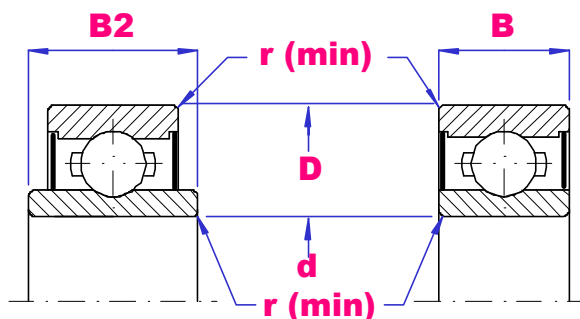


| PART NO      | d       | D mm  | B mm | B2 mm | rmin mm | Load D-kN | Load S-kN | Limiting Speed 2rs | Wgt g |
|--------------|---------|-------|------|-------|---------|-----------|-----------|--------------------|-------|
| 6200-7/16    | 7/16    | 30    | 9    | 9     | 0.6     | 5.10      | 2.39      | 18000              | 30    |
| 6201-1/2     | 1/2     |       |      |       |         |           |           | 17000              | 34    |
| 6201-8mm     | 8       | 32    | 10   | 10    | 0.6     | 6.80      | 3.05      | 17000              | 40    |
| 6201-13mm    | 13      |       |      |       |         |           |           | 17000              | 36    |
| 99502HNR     | 5/8     | 1.3/8 | 11   | 11    | 0.6     | 7.65      | 3.75      | 14000              | 44    |
| 6202-3/8     | 3/8     |       | 11   | 11    |         |           |           | 14000              | 53    |
| 6202-1/2     | 1/2     |       | 11   | 11    |         |           |           | 14000              | 47    |
| 6202-9/16    | 9/16    |       | 11   | 11    |         |           |           | 14000              | 45    |
| 6003-5/8     | 5/8     |       | 10   | 10    |         |           |           | 14000              | 46    |
| 6202-5/8     | 5/8     |       | 11   | 11    |         | 6.00      | 3.25      | 14000              | 42    |
| 6003-3/4     | 3/4     | 35    | 10   | 10    | 0.6     | 7.65      | 3.75      | 14000              | 37    |
| 6202-10mm    | 10      |       | 11   | 11    |         | 6.00      | 3.25      | 14000              | 53    |
| 6202-13mm    | 13      |       | 11   | 11    |         |           |           | 14000              | 47    |
| 6202-14mm    | 14      |       | 11   | 11    |         |           |           | 14000              | 45    |
| 6202-16mm    | 16      |       | 11   | 11    |         |           |           | 14000              | 43    |
| 202KRR3      | 9/16HEX |       | 11   | 13    |         |           |           | 4000               | 48    |
| 202NPP9      | 12.8    | 38.1  | 11   | 11    | 0.6     | 6.00      | 3.25      | 800                | 70    |
| 6203-12mm    | 12      |       | 12   | 12    |         | 9.55      | 4.80      | 12000              | 86    |
| 6203-1/2     | 1/2     |       | 12   | 12    |         |           |           | 12000              | 73    |
| 203KRR5      | 13.08   |       | 12   | 18.3  |         |           |           | 2000               | 92    |
| 6203-9/16    | 9/16    |       | 12   | 12    |         |           |           | 12000              | 69    |
| 6203-5/8     | 5/8     |       | 12   | 12    |         |           |           | 12000              | 67    |
| 203KRR2      | 16.25   |       | 12   | 18.3  |         |           |           | 6000               | 81    |
| 5203KYY2     | 16.25   | 40    | 39   | 44    | 0.6     | 14.6      | 9.05      | 800                | 221   |
| 6203-3/4     | 3/4     |       | 12   | 12    |         | 9.55      | 4.80      | 12000              | 61    |
| 6203-14mm    | 14      |       | 12   | 12    |         |           |           | 12000              | 69    |
| 6203-15mm/14 | 15      |       | 14   | 14    |         |           |           | 12000              | 80    |
| 6203-16mm    | 16      |       | 12   | 12    |         |           |           | 12000              | 66    |
| 6203-19mm    | 19      |       | 12   | 12    |         |           |           | 12000              | 61    |
| 203KRR3      | 16      | 50.8  | 15   | 15    | 1.0     | 9.55      | 4.80      | 6000               | 178   |



# UBC

## DEEP GROOVE NON STANDARD BALL BEARINGS

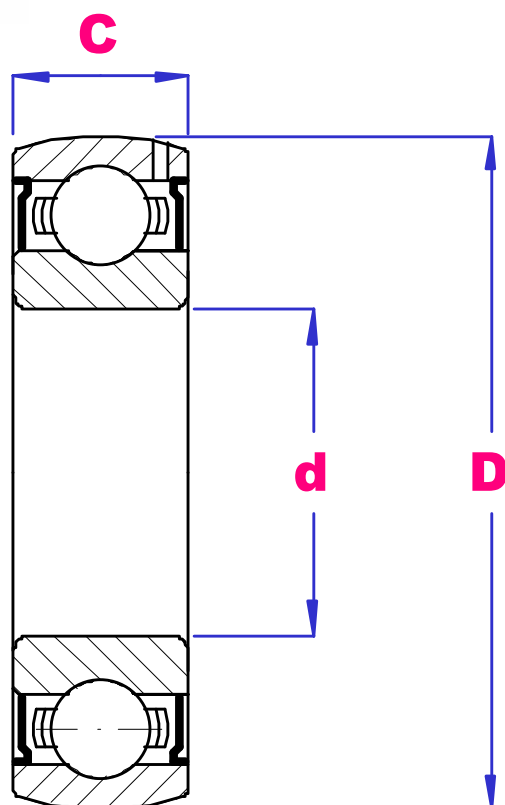


| PART NO               | d          | D mm   | B mm | B2 mm        | rmin mm | Load D-kN | Load S-kN | Limiting Speed | Wgt g      |
|-----------------------|------------|--------|------|--------------|---------|-----------|-----------|----------------|------------|
| 6004-3/4<br>RA012NPP2 | 3/4<br>3/4 | 42     | 12   | 12<br>25     | 0.6     | 9.4       | 5.0       | 11000<br>6000  | 72<br>109  |
| 204RY2<br>204BBAR     | 5/8<br>3/4 | 45.212 | 15.4 | 18.6<br>15.4 | 1.0     | 10.0      | 5.5       | 4100<br>10500  | 133<br>104 |
| 203KRR6               | 16.25      |        | 12   | 18.3         |         |           |           | 8000           | 133        |
| 6204-5/8              | 5/8        |        |      | 14           |         |           |           | 10500          | 79         |
| 6204-3/4              | 3/4        |        |      | 14           |         |           |           | 10500          | 112        |
| 204KRR3               | 20         | 47     | 14   | 18           | 1.0     | 12.8      | 6.60      | 10500          | 116        |
| 6204-7/8              | 7/8        |        |      | 14           |         |           |           | 10500          | 98         |
| 6005-1                | 1          |        |      | 14           |         |           |           | 10500          | 79         |
| 204KRR2               | 11/16HEX   |        |      | 21           |         |           |           | 4000           | 119        |
| 205PP10               | 5/8        |        | 15   | 1.3/8        |         |           |           | 800            | 290        |
| 6304-3/4              | 3/4        |        |      | 15           |         |           |           | 8000           | 152        |
| 205KRP2               | 3/4        |        |      | 21           |         |           |           | 1200           | 191        |
| 205KR3                | 3/4        | 52     | 17.7 | 16.2         | 1.0     | 14.0      | 7.85      | 4000           | 171        |
| 205PPB7               | 15/16      |        |      | 1.3/8        |         |           |           | 800            | 198        |
| 6205-1                | 1          |        |      | 15           |         |           |           | 9000           | 129        |
| 206KRR13              | 3/4        |        | 16   | 24           |         | 19.4      | 11.3      | 700            | 328        |
| 6305-1                | 1          | 62     | 17   | 17           | 1.1     |           |           | 6000           | 228        |
| 5206KPP3              | 30.2       |        | 37   | 50           |         | 29.6      | 21.1      | 600            | 510        |
| 6206-1.1/4            | 1.1/4      |        | 16   | 16           |         |           |           | 6500           | 186        |
| 6008-1.7/16           | 1.7/16     | 68     | 15   | 15           | 1.1     | 16.8      | 11.5      | 6000           | 208        |
| 6207-1.1/4            | 1.1/4      |        |      | 17           |         |           |           | 6000           | 304        |
| 207KRR14              | 1.1/4      | 72     | 17   | 25           | 1.1     | 25.7      | 15.3      | 4500           | 376        |
| 207KYY                | 35         |        |      | 25           |         |           |           | 700            | 340        |
| 6209K-2RS             | TAPER      | 85     | 19   | 19           | 1.1     | 31.5      | 20.4      | 5100           | 397        |



# UBC

## CS200 SERIES BALL BEARINGS



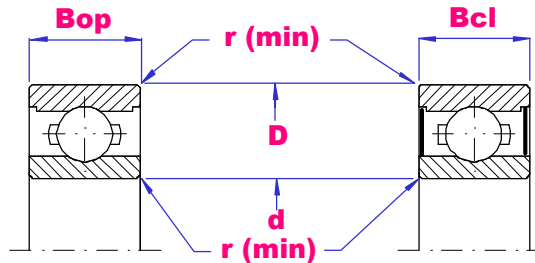
| PART NO         | d mm | D mm | C mm | Load D-kN | Load S-kN | Max Rpm | Wgt g |
|-----------------|------|------|------|-----------|-----------|---------|-------|
| CS200-2RS       | 10   | 30   | 9    | 5.15      | 2.40      | 18000   | 32    |
| CS201-2RS       | 12   | 32   | 10   | 6.13      | 2.76      | 16000   | 39    |
| CS203-12MM- 2RS | 12   | 40   | 12   | 9.55      | 4.59      | 12000   | 73    |
| CS202-2RS       | 15   | 35   | 11   | 7.82      | 3.62      | 15000   | 45    |
| CS203-15MM-2RS  | 15   | 40   | 12   | 9.55      | 4.59      | 12000   | 69    |
| CS203-2RS       | 17   | 40   | 12   | 9.55      | 4.59      | 12000   | 67    |
| CS204-2RS       | 20   | 47   | 14   | 12.8      | 6.65      | 10000   | 109   |
| CS205-2RS       | 25   | 52   | 15   | 14.1      | 7.88      | 8800    | 132   |
| CS206-2RS       | 30   | 62   | 16   | 19.4      | 11.3      | 7200    | 201   |
| CS207-2RS       | 35   | 72   | 17   | 25.7      | 15.3      | 6200    | 301   |
| CS208-2RS       | 40   | 80   | 18   | 29.1      | 17.8      | 5500    | 384   |
| CS209-2RS       | 45   | 85   | 19   | 32.6      | 20.4      | 5000    | 441   |
| CS210-2RS       | 50   | 90   | 20   | 34.9      | 23.2      | 4500    | 478   |



# UBC

## DEEP GROOVE BALL BEARINGS

### 3/64" – 7/16" ID



| PART NO | d inch | D inch | Bop inch | Bcl inch | rmin inch | Load D-kN | Load S-kN | Limiting speed |        |       | Wgt g |
|---------|--------|--------|----------|----------|-----------|-----------|-----------|----------------|--------|-------|-------|
|         |        |        |          |          |           |           |           | Open/oil       | zz     | 2rs   |       |
| R0      | 3/64   | 5/32   | 1/16     | 3/32     | 0.004     | 0.06      | 0.039     | 120000         | 100000 | ----- | 0.10  |
| R1-4    | 5/64   | 1/4    | 3/32     | 9/64     | 0.004     | 0.33      | 0.098     | 90000          | 75000  | ----- | 0.38  |
| R133    | 3/32   | 3/16   | 1/16     | 3/32     | 0.004     | 0.2       | 0.071     | 80000          | 71000  | ----- | 0.28  |
| R1-5    |        | 5/16   | 7/64     | 9/64     | 0.003     | 0.55      | 0.18      | 67000          | 60000  | ----- | 0.66  |
| R144    | 1/8    | 1/4    | 3/32     | 7/64     | 0.004     | 0.25      | 0.075     | 75000          | 63000  | ----- | 0.45  |
| R2-5    |        | 5/16   | 7/64     | 9/64     | 0.003     | 0.58      | 0.181     | 67000          | 60000  | ----- | 0.65  |
| R164    |        | 3/8    | 3/32     | 3/32     | 0.004     | 0.61      | 0.211     | 60000          | 50000  | ----- | 1.32  |
| R2/EE0  |        | 3/8    | 5/32     | 5/32     | 0.012     | 0.61      | 0.211     | 60000          | 50000  | ----- | 1.35  |
| R184    |        | 1/2    | 7/64     | 7/64     | 0.004     | 1.25      | 0.475     | 48000          | 40000  | ----- | 3.31  |
| R2A     |        | 1/2    | 11/64    | 11/64    | 0.012     | 1.25      | 0.475     | 48000          | 40000  | ----- | 3.55  |
| R156    | 3/16   | 5/16   | 7/64     | 1/8      | 0.004     | 0.31      | 0.121     | 63000          | 50000  | ----- | 0.35  |
| R166    |        | 3/8    | 1/8      | 1/8      | 0.004     | 0.42      | 0.162     | 60000          | 48000  | ----- | 1.33  |
| R186    |        | 1/2    | 7/64     | 5/32     | 0.004     | 1.04      | 0.415     | 50000          | 40000  | ----- | 2.51  |
| R3/EE1  |        | 1/2    | 5/32     | 0.196    | 0.012     | 1.04      | 0.415     | 50000          | 40000  | 24000 | 3.21  |
| R3A     |        | 5/8    | 0.196    | 0.196    | 0.012     | 1.35      | 0.485     | 43000          | 40000  | 20000 | 4.85  |
| 1601    |        | 11/16  | 1/4      | 5/16     | 0.012     | 1.38      | 0.585     | 40000          | 34000  | 20000 | 6.55  |
| R168    | 1/4    | 3/8    | 1/8      | 1/8      | 0.004     | 0.495     | 0.214     | 53000          | 45000  | ----- | 0.68  |
| R188    |        | 1/2    | 1/8      | 3/16     | 0.005     | 1.08      | 0.421     | 50000          | 38000  | ----- | 1.85  |
| R4/EE2  |        | 5/8    | 0.196    | 0.196    | 0.012     | 1.55      | 0.622     | 40000          | 33000  | 22000 | 6.55  |
| 1602    |        | 11/16  | 1/4      | 5/16     | 0.012     | 1.38      | 0.585     | 38000          | 28000  | 22000 | 6.95  |
| R4A     |        | 3/4    | 7/32     | 9/32     | 0.016     | 2.55      | 1.05      | 38000          | 28000  | 22000 | 7.25  |
| R1810   | 5/16   | 1/2    | 5/32     | 5/32     | 0.005     | 0.555     | 0.285     | 46000          | 39000  | ----- | 0.95  |
| R5A     |        | 7/8    | 7/32     | 9/32     | 0.016     | 3.46      | 1.41      | 36000          | 29000  | ----- | 12.2  |
| 1603    |        | 7/8    | 9/32     | 11/32    | 0.012     | 3.46      | 1.41      | 36000          | 29000  | 20000 | 13.2  |
| 1605    |        | 29/32  | 5/16     | 5/16     | 0.012     | 3.55      | 1.48      | 32000          | 24000  | 20000 | 16.8  |
| R6/EE3  | 3/8    | 7/8    | 7/32     | 9/32     | 0.016     | 3.46      | 1.41      | 36000          | 29000  | 18000 | 11.1  |
| 1604    |        | 7/8    | 9/32     | 11/32    | 0.015     | 3.46      | 1.41      | 36000          | 29000  | 18000 | 12.4  |
| 1606    |        | 29/32  | 5/16     | 5/16     | 0.015     | 3.55      | 1.48      | 32000          | 24000  | 18000 | 15.4  |
| 1614    |        | 1.1/8  | 3/8      | 3/8      | 0.025     | 3.95      | 2.25      | 30000          | 20000  | 16000 | 34.9  |
| 1607    | 7/16   | 29/32  | 5/16     | 5/16     | 0.015     | 3.55      | 1.48      | 32000          | 24000  | 18000 | 22.2  |
| R8-7    |        | 1.1/8  | 1/4      | 5/16     | 0.016     | 3.95      | 2.25      | 30000          | 20000  | 16000 | 28.5  |
| 1615    |        | 1.1/8  | 3/8      | 3/8      | 0.025     | 3.95      | 2.25      | 30000          | 20000  | 16000 | 32.2  |
| 1620    |        | 1.3/8  | 7/16     | 7/16     | 0.025     | 5.88      | 3.47      | 28000          | 20000  | 15000 | 45.4  |



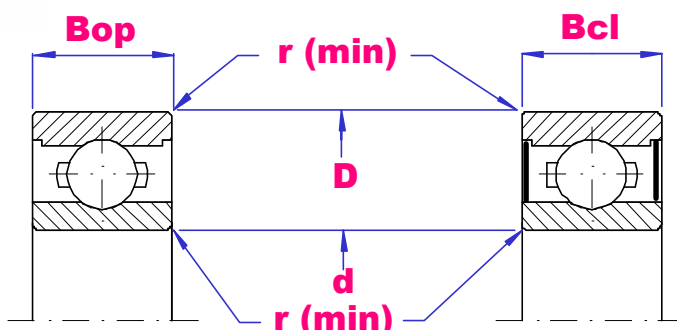
# UBC

## DEEP GROOVE BALL BEARINGS

### 1/2" – 1.1/4" ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| PART NO  | d inch | D inch  | Bop inch | Bcl inch | rmin inch | Load D-kN | Load S-kN | Limiting speed |       |       | Wgt g |
|----------|--------|---------|----------|----------|-----------|-----------|-----------|----------------|-------|-------|-------|
|          |        |         |          |          |           |           |           | Open/oil       | zz    | 2rs   |       |
| R1212    | 1/2    | 3/4     | 5/32     | -----    | 0.016     | 3.29      | 1.22      | 38000          | 32000 | 18000 | 0.78  |
| R8/EE4   |        | 1.1/8   | 1/4      | 5/16     | 0.016     | 5.29      | 2.37      | 32000          | 26000 | 17000 | 23.0  |
| 1616     |        | 1.1/8   | 5/16     | 3/8      | 0.025     | 5.29      | 2.37      | 32000          | 26000 | 17000 | 30.0  |
| RLS4     |        | 1.5/16  | 3/8      | 3/8      | 0.031     | 7.15      | 3.09      | 30000          | 24000 | 15000 | 37.0  |
| 1621     |        | 1.3/8   | 7/16     | 7/16     | 0.025     | 7.82      | 3.55      | 29000          | 22000 | 14000 | 48.0  |
| RMS4     |        | 1.5/8   | 5/8      | 5/8      | 0.063     | 12.1      | 5.10      | 25000          | 18500 | 12500 | 96.0  |
| 1622     | 9/16   | 1.3/8   | 7/16     | 7/16     | 0.025     | 6.23      | 3.25      | 28000          | 22000 | 13000 | 46.0  |
| R10/EE5  | 5/8    | 1.3/8   | 9/32     | 11/32    | 0.031     | 6.23      | 3.25      | 28000          | 22000 | 13000 | 35.0  |
| 1623     |        | 1.3/8   | 7/16     | 7/16     | 0.025     | 6.23      | 3.25      | 28000          | 22000 | 13000 | 40.0  |
| RLS5     |        | 1.9/16  | 3/8      | 3/8      | 0.031     | 10.9      | 5.25      | 24000          | 18000 | 12000 | 59.0  |
| 1628     |        | 1.5/8   | 1/2      | 1/2      | 0.025     | 11.3      | 5.25      | 24000          | 18000 | 11000 | 72.0  |
| 1633     |        | 1.3/4   | 1/2      | 1/2      | 0.025     | 11.3      | 5.25      | 23000          | 17000 | 10500 | 90.0  |
| RMS5     |        | 1.13/16 | 5/8      | 5/8      | 0.063     | 12.6      | 5.55      | 22000          | 16000 | 10000 | 117   |
| R12/EE6  | 3/4    | 1.5/8   | 5/16     | 7/16     | 0.031     | 8.22      | 4.43      | 22500          | 17000 | 11500 | 66.0  |
| 1630     |        | 1.5/8   | 1/2      | 1/2      | 0.025     | 8.22      | 4.43      | 22500          | 17000 | 11500 | 65.0  |
| 1635/EE7 |        | 1.3/4   | -        | 1/2      | 0.025     | 11.3      | 4.85      | 22000          | 16000 | 10500 | 85.0  |
| RLS6     |        | 1.7/8   | 9/16     | 9/16     | 0.063     | 14.2      | 6.70      | 21000          | 15000 | 10000 | 109   |
| 1638     |        | 2       | 9/16     | 9/16     | 0.035     | 16.5      | 7.85      | 20000          | 14000 | 9000  | 120   |
| RMS6     |        | 2       | 11/16    | 11/16    | 0.063     | 16.5      | 7.85      | 20000          | 14000 | 9000  | 156   |
| R14/EE8  | 7/8    | 1.7/8   | 3/8      | 1/2      | 0.031     | 12.0      | 6.40      | 20000          | 14500 | 11500 | 102   |
| RLS7     |        | 2       | 9/16     | 9/16     | 0.031     | 14.4      | 7.00      | 19000          | 14000 | 9500  | 116   |
| 1640     |        | 2       | 9/16     | 9/16     | 0.035     | 14.4      | 7.00      | 19000          | 14000 | 9500  | 110   |
| RMS7     |        | 2.1/4   | 11/16    | 11/16    | 0.063     | 19.2      | 9.40      | 18000          | 13000 | 9000  | 197   |
| R16/EE9  | 1      | 2       | 3/8      | 1/2      | 0.031     | 11.8      | 7.18      | 18500          | 13600 | 9500  | 85.0  |
| 1641     |        | 2       | 9/16     | 9/16     | 0.035     | 11.8      | 7.18      | 18200          | 13600 | 9500  | 100   |
| RLS8     |        | 2.1/4   | 5/8      | 5/8      | 0.063     | 18.6      | 9.70      | 17000          | 12500 | 8500  | 169   |
| RMS8     |        | 2.1/2   | 3/4      | 3/4      | 0.094     | 22.1      | 11.0      | 16000          | 12000 | 8000  | 262   |
| R18/EE10 | 1.1/8  | 2.1/8   | 3/8      | 1/2      | 0.031     | 11.7      | 7.30      | 17500          | 13000 | 8500  | 88.0  |
| 1652     |        | 2.1/2   | 5/8      | 5/8      | 0.035     | 20.2      | 11.3      | 15000          | 11000 | 8000  | 210   |
| RLS9     |        | 2.1/2   | 5/8      | 5/8      | 0.063     | 20.2      | 11.3      | 15000          | 11000 | 8000  | 219   |
| RMS9     |        | 2.13/16 | 13/16    | 13/16    | 0.094     | 30.8      | 16.6      | 14000          | 10000 | 7000  | 347   |
| R20/EE11 | 1.1/4  | 2.1/4   | 3/8      | 1/2      | 0.031     | 12.8      | 8.69      | 16000          | 11000 | 7500  | 128   |
| 1654     |        | 2.1/2   | 5/8      | 5/8      | 0.035     | 20.2      | 11.3      | 15000          | 10000 | 7000  | 190   |
| 1657     |        | 2.9/16  | 11/16    | 11/16    | 0.035     | 22.5      | 12.8      | 14000          | 9000  | 7000  | 220   |
| RLS10    |        | 2.3/4   | 11/16    | 11/16    | 0.063     | 27.7      | 15.0      | 13500          | 9000  | 6500  | 276   |
| RMS10    |        | 3.1/8   | 7/8      | 7/8      | 0.094     | 37.7      | 19.6      | 12500          | 8000  | 6000  | 476   |



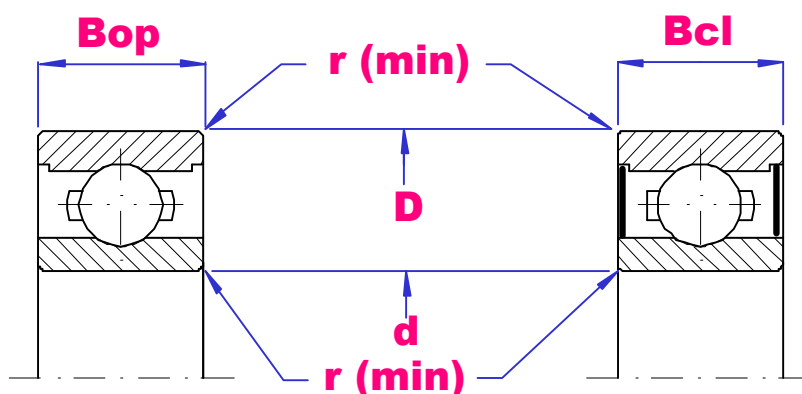
# UBC

## DEEP GROOVE BALL BEARINGS

### 1.5/16" – 2.1/2" ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



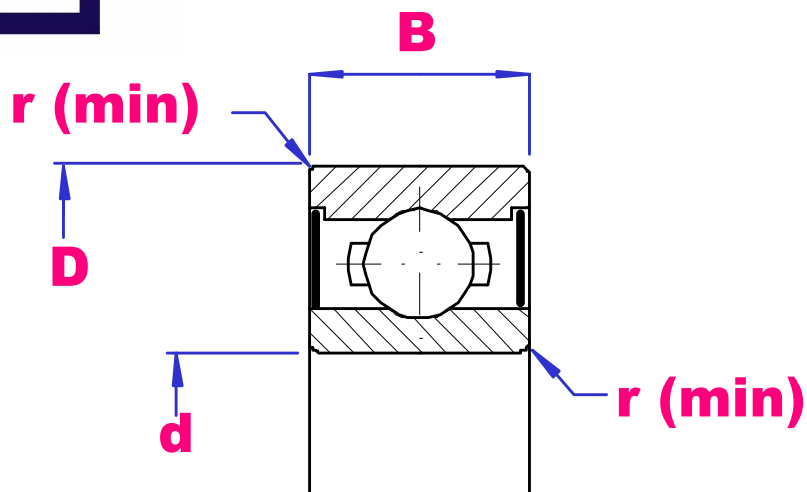
| PART NO  | d inch | D inch  | Bop inch | Bcl inch | rmin inch | Load D-kN | Load S-kN | Limiting speed Open/Oil | 2rs   | Wgt kg |
|----------|--------|---------|----------|----------|-----------|-----------|-----------|-------------------------|-------|--------|
| 1658     | 1.5/16 | 2.9/16  | 11/16    | 11/16    | 0.035     | 22.5      | 12.8      | 14000                   | 7000  | 0.215  |
| R22/EE12 | 1.3/8  | 2.1/2   | 7/16     | 1/2      | 0.031     | 14.4      | 9.36      | 14500                   | 11000 | 0.134  |
| XLJ1.3/8 |        | 2.9/16  | 9/16     | -        | 0.063     | 16.6      | 10.3      | 15000                   | 11000 | 0.194  |
| RLS11    |        | 3       | 11/16    | 11/16    | 0.063     | 30.2      | 17.5      | 13000                   | 9500  | 0.333  |
| RMS11    |        | 3.1/2   | 7/8      | 7/8      | 0.094     | 45.3      | 24.0      | 11500                   | 8500  | 0.608  |
| R24/EE13 | 1.1/2  | 2.5/8   | 7/16     | 1/2      | 0.031     | 15.0      | 10.3      | 13500                   | 10300 | 0.142  |
| XLJ1.1/2 |        | 2.11/16 | 9/16     | -        | 0.063     | 15.5      | 10.8      | 13500                   | 10000 | 0.202  |
| RLS12    |        | 3.1/4   | 3/4      | 3/4      | 0.094     | 34.8      | 20.0      | 12000                   | 6300  | 0.418  |
| RMS12    |        | 3.3/4   | 15/16    | 15/16    | 0.094     | 49.5      | 26.7      | 11000                   | 5700  | 0.753  |
| XLJ1.5/8 | 1.5/8  | 2.7/8   | 9/16     | -        | 0.063     | 15.9      | 10.5      | 12000                   | 9300  | 0.276  |
| RLS13    |        | 3.1/2   | 3/4      | 3/4      | 0.094     | 38.7      | 22.1      | 11300                   | 5900  | 0.481  |
| RMS13    |        | 4       | 15/16    | 15/16    | 0.094     | 55.0      | 32.0      | 10300                   | 5000  | 0.857  |
| XLJ1.3/4 | 1.3/4  | 3       | 9/16     | -        | 0.063     | 21.8      | 15.1      | 11500                   | 9100  | 0.238  |
| RLS14    |        | 3.3/4   | 13/16    | 13/16    | 0.094     | 42.7      | 24.8      | 10600                   | 5500  | 0.594  |
| RMS14    |        | 4.1/4   | 15/16    | 15/16    | 0.094     | 59.5      | 34.7      | 9600                    | 4500  | 1.06   |
| XLJ1.7/8 | 1.7/8  | 3.3/16  | 5/8      | -        | 0.063     | 22.7      | 16.6      | 11200                   | 8300  | 0.291  |
| RLS15    |        | 4       | 13/16    | 13/16    | 0.093     | 50.5      | 31.2      | 9800                    | 5000  | 0.708  |
| RMS15    |        | 4.1/2   | 1.1/16   | 1.1/16   | 0.093     | 69.0      | 41.0      | 8900                    | 4000  | 1.22   |
| XLJ2     | 2      | 3.5/16  | 5/8      | -        | 0.063     | 22.9      | 16.6      | 11200                   | 8000  | 0.317  |
| RLS16    |        | 4       | 13/16    | 13/16    | 0.094     | 50.5      | 31.2      | 9800                    | 5000  | 0.667  |
| RMS16    |        | 4.1/2   | 1.1/16   | 1.1/16   | 0.094     | 69.0      | 41.0      | 8900                    | 4000  | 1.17   |
| XLJ2.1/4 | 2.1/4  | 3.9/16  | 5/8      | -        | 0.063     | 29.4      | 21.3      | 10300                   | 7600  | 0.338  |
| RLS18    |        | 4.1/2   | 7/8      | -        | 0.094     | 60.0      | 36.4      | 8500                    | 6400  | 0.885  |
| RMS18    |        | 5       | 1.1/4    | -        | 0.125     | 85.0      | 51.5      | 8000                    | 5900  | 1.60   |
| XLJ2.1/2 | 2.1/2  | 3.7/8   | 11/16    | -        | 0.063     | 31.8      | 25.2      | 9000                    | 6700  | 0.421  |
| RLS20    |        | 5       | 15/16    | -        | 0.094     | 65.5      | 42.6      | 7700                    | 5700  | 1.22   |
| RMS20    |        | 5.1/2   | 1.1/4    | -        | 0.125     | 96.5      | 60.0      | 7000                    | 5300  | 2.04   |



# UBC

## DEEP GROOVE BALL BEARINGS

### 2.3/4" - 4" ID



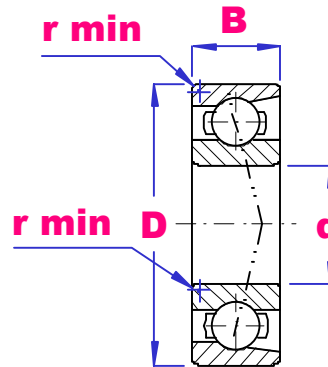
| PART NO  | d inch | D inch | B inch | rmin inch | Load D-kN | Load S-kN | Limiting speed |      | Wgt kg |
|----------|--------|--------|--------|-----------|-----------|-----------|----------------|------|--------|
| XLJ2.3/4 | 2.3/4  | 4.1/8  | 11/16  | 0.063     | 24.5      | 21.3      | 8300           | 6100 | 0.535  |
| RLS22    |        | 5.1/4  | 15/16  | 0.094     | 70.0      | 48.0      | 7200           | 5300 | 1.33   |
| RMS22    |        | 6.1/4  | 1.3/8  | 0.125     | 118       | 77.0      | 6200           | 4600 | 2.89   |
| XLJ3     | 3      | 4.1/2  | 3/4    | 0.094     | 41.1      | 33.5      | 7800           | 5800 | 0.753  |
| RLS24    |        | 5.3/4  | 1.1/16 | 0.094     | 81.5      | 57.0      | 6500           | 4800 | 1.81   |
| RMS24    |        | 7      | 1.9/16 | 0.156     | 138       | 96.5      | 5400           | 4000 | 4.25   |
| XLJ3.1/4 | 3.1/4  | 4.3/4  | 3/4    | 0.094     | 30.5      | 28.3      | 5400           | 5500 | 0.807  |
| RLS26    |        | 6      | 1.1/16 | 0.094     | 87.5      | 62.0      | 6100           | 4500 | 1.87   |
| RMS26    |        | 7.1/2  | 1.9/16 | 0.156     | 139       | 99.0      | 5100           | 3800 | 4.99   |
| XLJ3.1/2 | 3.1/2  | 5      | 3/4    | 0.094     | 34.1      | 31.4      | 6800           | 5000 | 0.785  |
| RLS28    |        | 6.1/2  | 1.1/8  | 0.125     | 100       | 72.0      | 5600           | 4200 | 2.33   |
| RMS28    |        | 8.1/8  | 1.3/4  | 0.156     | 169       | 129       | 4600           | 3400 | 6.53   |
| XLJ3.3/4 | 3.3/4  | 5.1/4  | 3/4    | 0.094     | 40.6      | 38.5      | 6400           | 4700 | 0.844  |
| RLS30    |        | 6.3/4  | 1.1/8  | 0.125     | 106       | 80.5      | 5300           | 3900 | 2.47   |
| RMS30    |        | 8.1/4  | 1.3/4  | 0.156     | 169       | 129       | 4600           | 3400 | 6.53   |
| XLJ4     | 4      | 5.5/8  | 7/8    | 0.094     | 41.4      | 40.5      | 6000           | 4200 | 1.15   |
| RLS32    |        | 7.1/4  | 1.1/4  | 0.125     | 120       | 88.5      | 5100           | 3800 | 3.18   |
| RMS32    |        | 8.1/2  | 1.3/4  | 0.156     | 170       | 132       | 4400           | 3200 | 6.71   |



# UBC

## ANGULAR CONTACT BALL BEARINGS

### 10 – 50MM ID



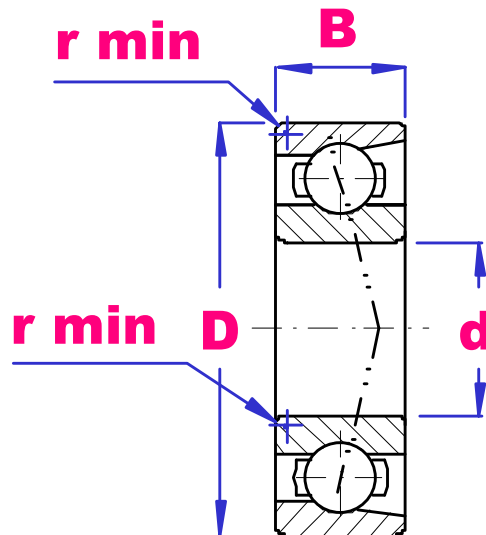
| PART NO | d mm | D mm | B mm | rmin mm | Load D-kN | Load S-kN | Limiting speed oil | grease | Wgt kg |
|---------|------|------|------|---------|-----------|-----------|--------------------|--------|--------|
| 7000    | 10   | 26   | 8    | 0.3     | 5.45      | 2.42      | 25500              | 12900  | 0.014  |
| 7200    |      | 30   | 9    | 0.6     | 6.35      | 2.72      | 23500              | 11000  | 0.027  |
| 7001    | 12   | 28   | 8    | 0.3     | 5.95      | 2.87      | 23500              | 11900  | 0.018  |
| 7201    |      | 32   | 10   | 0.6     | 8.05      | 3.74      | 22500              | 11000  | 0.041  |
| 7002    | 15   | 32   | 9    | 0.3     | 6.75      | 3.62      | 21000              | 10400  | 0.027  |
| 7202    |      | 35   | 11   | 0.6     | 8.75      | 4.36      | 20000              | 9900   | 0.054  |
| 7003    | 17   | 35   | 10   | 0.3     | 7.10      | 4.07      | 19000              | 9600   | 0.036  |
| 7203    |      | 40   | 12   | 0.6     | 10.7      | 5.55      | 18000              | 8900   | 0.073  |
| 7303    |      | 47   | 14   | 1.0     | 16.6      | 8.31      | 16000              | 8100   | 0.136  |
| 7004    | 20   | 42   | 12   | 0.6     | 10.7      | 5.88      | 16000              | 8300   | 0.059  |
| 7204    |      | 47   | 14   | 1.0     | 15.4      | 8.22      | 15000              | 7800   | 0.122  |
| 7304    |      | 52   | 15   | 1.1     | 19.3      | 9.85      | 14000              | 7300   | 0.177  |
| 7005    | 25   | 47   | 12   | 0.6     | 12.5      | 7.89      | 15000              | 7300   | 0.073  |
| 7205    |      | 52   | 15   | 1.0     | 16.4      | 9.35      | 14000              | 6900   | 0.150  |
| 7305    |      | 62   | 17   | 1.1     | 25.0      | 13.4      | 12500              | 6200   | 0.263  |
| 7006    | 30   | 55   | 13   | 1.0     | 16.1      | 10.7      | 12600              | 6300   | 0.104  |
| 7206    |      | 62   | 16   | 1.0     | 23.4      | 14.3      | 12000              | 5900   | 0.231  |
| 7306    |      | 72   | 19   | 1.1     | 33.7      | 19.4      | 10500              | 5300   | 0.395  |
| 7007    | 35   | 62   | 14   | 1.0     | 19.5      | 13.4      | 11200              | 5600   | 0.168  |
| 7207    |      | 72   | 17   | 1.1     | 30.3      | 19.1      | 10000              | 5100   | 0.318  |
| 7307    |      | 80   | 21   | 1.5     | 37.4      | 22.2      | 9500               | 4800   | 0.517  |
| 7008    | 40   | 68   | 15   | 1.0     | 20.9      | 15.5      | 10000              | 5100   | 0.209  |
| 7208    |      | 80   | 18   | 1.1     | 35.5      | 23.1      | 9000               | 4600   | 0.417  |
| 7308    |      | 90   | 23   | 1.5     | 49.3      | 29.9      | 8000               | 4200   | 0.717  |
| 7009    | 45   | 75   | 16   | 1.0     | 25.7      | 19.9      | 9100               | 4600   | 0.263  |
| 7209    |      | 85   | 19   | 1.1     | 37.2      | 25.4      | 8500               | 4200   | 0.481  |
| 7309    |      | 100  | 25   | 1.5     | 60.5      | 38.8      | 7600               | 3800   | 0.971  |
| 7010    | 50   | 80   | 16   | 1.0     | 25.5      | 20.3      | 8500               | 4200   | 0.286  |
| 7210    |      | 90   | 20   | 1.1     | 38.8      | 27.8      | 7600               | 3900   | 0.531  |
| 7310    |      | 110  | 27   | 2.0     | 72.2      | 47.1      | 6900               | 3400   | 1.271  |



# UBC

## ANGULAR CONTACT BALL BEARINGS

### 55 – 110MM ID



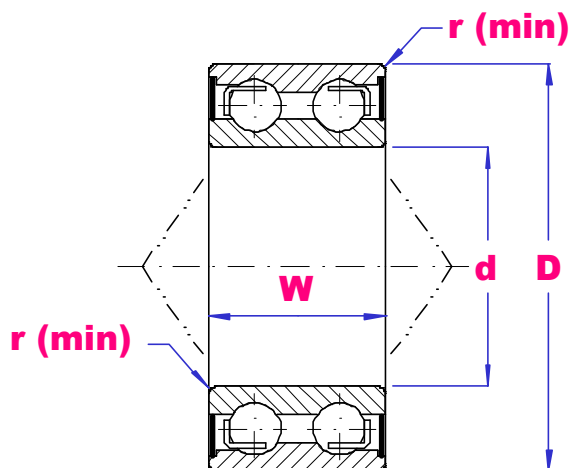
| PART NO | d mm | D mm | B mm | rmin mm | Load D-kN | Load S-kN | Limiting speed |        | Wgt kg |
|---------|------|------|------|---------|-----------|-----------|----------------|--------|--------|
|         |      |      |      |         |           |           | oil            | grease |        |
| 7211    | 55   | 100  | 21   | 1.5     | 45.9      | 33.7      | 7100           | 3600   | 0.703  |
| 7311    |      | 120  | 29   | 2.0     | 77.0      | 51.5      | 6300           | 3100   | 1.61   |
| 7212    | 60   | 110  | 22   | 1.5     | 65.5      | 41.5      | 6500           | 3200   | 0.912  |
| 7312    |      | 130  | 31   | 2.0     | 94.0      | 63.9      | 5800           | 2900   | 2.03   |
| 7213    | 65   | 120  | 23   | 1.5     | 63.5      | 49.3      | 5900           | 3000   | 1.14   |
| 7313    |      | 140  | 33   | 2.0     | 100       | 69.0      | 5300           | 2700   | 2.50   |
| 7214    | 70   | 125  | 24   | 1.5     | 68.5      | 53.9      | 5600           | 2800   | 1.19   |
| 7314    |      | 150  | 35   | 2.0     | 119       | 85.9      | 4900           | 2500   | 3.03   |
| 7215    | 75   | 130  | 25   | 1.5     | 71.0      | 58.5      | 5300           | 2700   | 1.27   |
| 7315    |      | 160  | 37   | 2.0     | 129       | 97.0      | 4600           | 2300   | 3.62   |
| 7216    | 80   | 140  | 26   | 2.0     | 83.5      | 69.0      | 4900           | 2500   | 1.66   |
| 7316    |      | 170  | 39   | 2.0     | 140       | 109       | 4300           | 2100   | 4.31   |
| 7217    | 85   | 150  | 28   | 2.0     | 90.0      | 75.4      | 4600           | 2300   | 2.02   |
| 7317    |      | 180  | 41   | 2.5     | 151       | 122       | 4000           | 2000   | 4.99   |
| 7218    | 90   | 160  | 30   | 2.0     | 111       | 93.7      | 4300           | 2100   | 2.52   |
| 7318    |      | 190  | 43   | 2.5     | 163       | 135       | 3800           | 1900   | 5.81   |
| 7219    | 95   | 170  | 32   | 2.0     | 120       | 101       | 4000           | 2000   | 2.98   |
| 7319    |      | 200  | 45   | 2.5     | 171       | 149       | 3500           | 1800   | 6.76   |
| 7220    | 100  | 180  | 34   | 2.0     | 135       | 114       | 3800           | 1900   | 3.65   |
| 7320    |      | 215  | 47   | 2.5     | 198       | 177       | 2600           | 1600   | 8.80   |
| 7221    | 105  | 190  | 36   | 2.0     | 148       | 123       | 3500           | 1800   | 4.25   |
| 7321    |      | 225  | 49   | 2.5     | 210       | 180       | 2500           | 1500   | 9.80   |
| 7222    | 110  | 200  | 38   | 2.0     | 160       | 144       | 3300           | 1700   | 4.94   |
| 7322    |      | 240  | 50   | 2.5     | 235       | 225       | 2400           | 1400   | 11.6   |



# UBC

## DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

### 8 – 40 MM ID



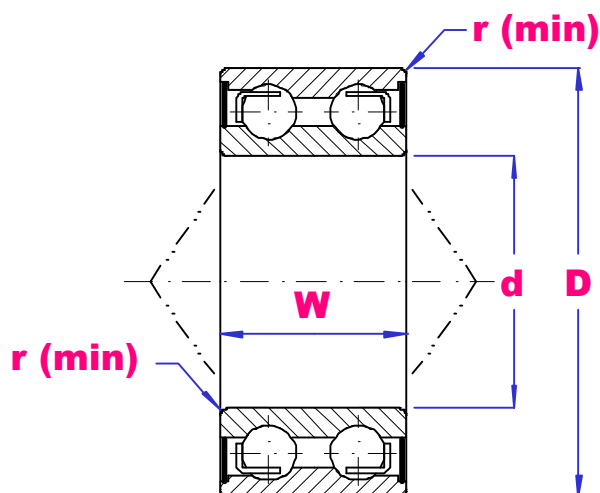
| PART NO | d mm | D mm | W mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting speed |       | Wgt g |
|---------|------|------|------|---------------------|-----------|-----------|----------------|-------|-------|
|         |      |      |      |                     |           |           | Open/oil       | 2rs   |       |
| 50/8    | 8    | 22   | 11   | 0.3                 | 5.2       | 2.61      | 26000          | 20000 | 19    |
| 5000    | 10   | 26   | 12   | 0.3                 | 5.7       | 3.25      | 24000          | 17500 | 22    |
| 5200    |      | 30   | 14.3 | 0.6                 | 7.15      | 3.93      | 22000          | 13000 | 60    |
| 5001    | 12   | 28   | 12   | 0.3                 | 6.2       | 3.75      | 22500          | 17000 | 25    |
| 5201    |      | 32   | 15.9 | 0.6                 | 10.5      | 5.79      | 20000          | 12000 | 65    |
| 5002    | 15   | 32   | 13   | 0.3                 | 8.6       | 5.4       | 18500          | 14500 | 36    |
| 5202    |      | 35   | 15.9 | 0.6                 | 11.7      | 7.05      | 17000          | 11000 | 70    |
| 5302    |      | 42   | 19.0 | 1.0                 | 17.6      | 10.2      | 15000          | 11000 | 110   |
| 5003    | 17   | 35   | 14   | 0.3                 | 9.2       | 6.2       | 16000          | 12500 | 42    |
| 5203    |      | 40   | 17.5 | 0.6                 | 14.6      | 9.05      | 15000          | 10000 | 90    |
| 5303    |      | 47   | 22.2 | 1.1                 | 21.1      | 12.6      | 13000          | 8500  | 140   |
| 5004    | 20   | 42   | 16   | 0.6                 | 14.5      | 9.6       | 14000          | 11000 | 80    |
| 5204    |      | 47   | 20.6 | 1.0                 | 19.6      | 12.4      | 13000          | 8500  | 120   |
| 5304    |      | 52   | 22.2 | 1.1                 | 24.6      | 15.1      | 12000          | 7500  | 230   |
| 5005    | 25   | 47   | 16   | 0.6                 | 15.5      | 11.1      | 8300           | 12300 | 101   |
| 5205    |      | 52   | 20.6 | 1.0                 | 21.3      | 14.7      | 11000          | 7500  | 190   |
| 5305    |      | 62   | 25.4 | 1.1                 | 32.5      | 20.7      | 10000          | 6500  | 340   |
| 5006    | 30   | 55   | 19   | 1.0                 | 20.3      | 15.6      | 10000          | 8000  | 160   |
| 5206    |      | 62   | 23.8 | 1.0                 | 29.6      | 21.1      | 9500           | 6300  | 290   |
| 5306    |      | 72   | 30.2 | 1.1                 | 40.5      | 28.1      | 8500           | 5600  | 510   |
| 5007    | 35   | 62   | 20   | 1.0                 | 24.5      | 21.4      | 6500           | 8500  | 205   |
| 5207    |      | 72   | 27.0 | 1.1                 | 39.1      | 28.7      | 8000           | 5300  | 430   |
| 5307    |      | 80   | 34.9 | 1.5                 | 51.1      | 36.1      | 7500           | 5000  | 790   |
| 5008    | 40   | 68   | 21   | 1.0                 | 25.5      | 21.7      | 8000           | 6100  | 252   |
| 5208    |      | 80   | 30.2 | 1.1                 | 44.1      | 33.5      | 7100           | 4800  | 570   |
| 5308    |      | 90   | 36.5 | 1.5                 | 56.5      | 41.1      | 6700           | 4500  | 1050  |



# UBC

## DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

### 45 – 110 MM ID



| PART NO | d mm | D mm | W mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting speed |      | Wgt kg |
|---------|------|------|------|---------------------|-----------|-----------|----------------|------|--------|
|         |      |      |      |                     |           |           | Open/oil       | 2rs  |        |
| 5209    | 45   | 85   | 30.2 | 1.1                 | 49.5      | 38.1      | 6700           | 4500 | .62    |
| 5309    |      | 100  | 39.7 | 1.5                 | 68.5      | 51.1      | 6000           | 4000 | 1.41   |
| 5210    | 50   | 90   | 30.2 | 1.1                 | 52.9      | 43.5      | 6000           | 4000 | .67    |
| 5310    |      | 110  | 44.4 | 2.0                 | 81.5      | 61.5      | 5600           | 3700 | 1.95   |
| 5211    | 55   | 100  | 33.3 | 1.5                 | 55.9      | 49.2      | 5600           | 3800 | .96    |
| 5311    |      | 120  | 49.2 | 2.0                 | 95.0      | 73.0      | 5000           | 3200 | 2.31   |
| 5212    | 60   | 110  | 36.5 | 1.5                 | 69.1      | 62.1      | 5000           | 3300 | 1.35   |
| 5312    |      | 130  | 54.0 | 2.1                 | 125       | 98.5      | 4500           | 3000 | 3.15   |
| 5213    | 65   | 120  | 38.1 | 1.5                 | 76.5      | 69.2      | 4500           | 3000 | 1.65   |
| 5313    |      | 140  | 58.7 | 2.1                 | 142       | 113       | 4300           | 2400 | 3.85   |
| 5214    | 70   | 125  | 39.7 | 1.5                 | 96.5      | 84.5      | 3800           | 2800 | 1.82   |
| 5314    |      | 150  | 63.5 | 2.1                 | 163       | 132       | 3200           | 2500 | 4.88   |
| 5215    | 75   | 130  | 41.3 | 1.5                 | 96        | 85.5      | 3600           | -    | 1.91   |
| 5315    |      | 160  | 68.3 | 2.1                 | 178       | 149       | 2900           | -    | 5.51   |
| 5216    | 80   | 140  | 44.4 | 2.0                 | 104       | 94        | 3500           | -    | 2.48   |
| 5316    |      | 170  | 68.3 | 2.1                 | 192       | 167       | 2700           | -    | 6.81   |
| 5217    | 85   | 150  | 49.2 | 2.0                 | 112       | 103       | 3300           | -    | 3.40   |
| 5317    |      | 180  | 73   | 3.0                 | 182       | 224       | 2600           | -    | 8.30   |
| 5218    | 90   | 160  | 52.4 | 2.0                 | 142       | 142       | 2700           | -    | 3.95   |
| 5318    |      | 190  | 73   | 3.0                 | 220       | 285       | 2500           | -    | 8.82   |
| 5219    | 95   | 170  | 55.6 | 2.1                 | 147       | 185       | 2600           | -    | 4.85   |
| 5319    |      | 200  | 77.8 | 3.0                 | 238       | 315       | 2400           | -    | 11.0   |
| 5220    | 100  | 180  | 60.3 | 2.1                 | 157       | 175       | 2500           | -    | 5.55   |
| 5320    |      | 215  | 82.3 | 3.0                 | 255       | 310       | 2300           | -    | 13.3   |
| 5222    | 110  | 200  | 69.8 | 2.1                 | 190       | 270       | 2500           | -    | 8.85   |
| 5322    |      | 240  | 92.1 | 3.0                 | 275       | 429       | 2400           | -    | 19.9   |

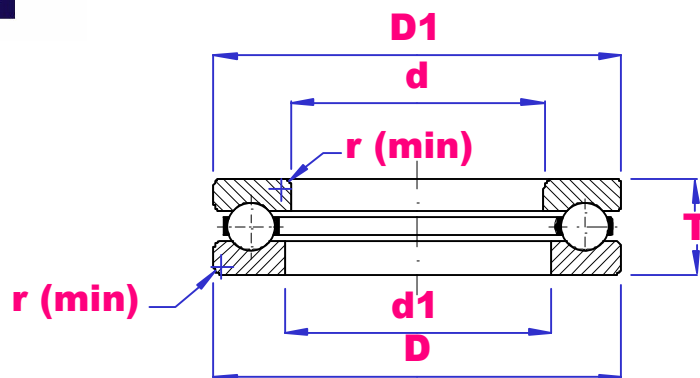


# UBC

## 511/512/513/51400 THRUST BEARINGS 10 – 45 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| PART NO | d mm | d1 mm | D mm | D1 mm | T mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting Grease | Speed Oil | Wgt g |
|---------|------|-------|------|-------|------|---------------------|-----------|-----------|-----------------|-----------|-------|
| 51100   | 10   | 11    | 24   | 24    | 9    | 0.3                 | 10.1      | 14.0      | 6700            | 10000     | 19    |
| 51200   |      | 12    | 26   | 26    | 11   | 0.6                 | 12.8      | 17.1      | 6000            | 9000      | 28    |
| 51101   | 12   | 13    | 26   | 26    | 9    | 0.3                 | 10.4      | 15.4      | 6700            | 10000     | 21    |
| 51201   |      | 14    | 28   | 28    | 11   | 0.6                 | 13.3      | 19.0      | 5600            | 8500      | 31    |
| 51102   | 15   | 16    | 28   | 28    | 9    | 0.3                 | 10.6      | 16.8      | 6300            | 9500      | 23    |
| 51202   |      | 17    | 32   | 32    | 12   | 0.6                 | 16.7      | 24.8      | 5000            | 7500      | 43    |
| 51103   | 17   | 18    | 30   | 30    | 9    | 0.3                 | 11.4      | 19.5      | 6000            | 9000      | 25    |
| 51203   |      | 19    | 35   | 35    | 12   | 0.6                 | 17.3      | 27.3      | 4800            | 7200      | 50    |
| 51104   | 20   | 21    | 35   | 35    | 10   | 0.3                 | 15.1      | 26.6      | 5300            | 8000      | 37    |
| 51204   |      | 22    | 40   | 40    | 14   | 0.6                 | 22.5      | 37.5      | 4300            | 6300      | 77    |
| 51105   | 25   | 26    | 42   | 42    | 11   | 0.6                 | 19.7      | 37.0      | 4800            | 7100      | 56    |
| 51205   |      | 27    | 47   | 47    | 15   | 0.6                 | 28.1      | 50.5      | 3800            | 5600      | 111   |
| 51305   |      | 27    | 52   | 52    | 18   | 1.0                 | 36.0      | 61.5      | 3200            | 5000      | 169   |
| 51405   |      | 27    | 60   | 60    | 24   | 1.0                 | 51.0      | 80.0      | 3000            | 3600      | 363   |
| 51106   | 30   | 32    | 47   | 47    | 11   | 0.6                 | 20.6      | 42.0      | 4300            | 6700      | 64    |
| 51206   |      | 32    | 52   | 52    | 16   | 0.6                 | 29.5      | 58.0      | 3400            | 5300      | 137   |
| 51306   |      | 32    | 60   | 60    | 21   | 1.0                 | 43.0      | 78.5      | 2800            | 4300      | 267   |
| 51406   |      | 32    | 70   | 70    | 28   | 1.0                 | 72.0      | 125       | 2500            | 3200      | 577   |
| 51107   | 35   | 37    | 52   | 52    | 12   | 0.6                 | 22.1      | 49.5      | 4000            | 6000      | 81    |
| 51207   |      | 37    | 62   | 62    | 18   | 1.0                 | 39.5      | 78.0      | 3000            | 4500      | 211   |
| 51307   |      | 37    | 68   | 68    | 24   | 1.0                 | 56.0      | 105       | 2400            | 3800      | 386   |
| 51407   |      | 37    | 80   | 80    | 32   | 1.1                 | 86.5      | 156       | 2000            | 3000      | 855   |
| 51108   | 40   | 42    | 60   | 60    | 13   | 0.6                 | 27.1      | 63.0      | 3600            | 5300      | 121   |
| 51208   |      | 42    | 68   | 68    | 19   | 1.0                 | 47.5      | 98.5      | 2800            | 4300      | 265   |
| 51308   |      | 42    | 78   | 78    | 26   | 1.0                 | 70.0      | 135       | 2200            | 3400      | 536   |
| 51408   |      | 42    | 90   | 90    | 36   | 1.1                 | 112       | 204       | 1800            | 2400      | 1170  |
| 51109   | 45   | 47    | 65   | 65    | 14   | 0.6                 | 28.1      | 69.0      | 3400            | 5000      | 143   |
| 51209   |      | 47    | 73   | 73    | 20   | 1.0                 | 48.0      | 105       | 2600            | 4000      | 311   |
| 51309   |      | 47    | 85   | 85    | 28   | 1.0                 | 80.5      | 163       | 2000            | 3000      | 672   |
| 51409   |      | 47    | 100  | 100   | 39   | 1.1                 | 129       | 245       | 1650            | 2200      | 1610  |

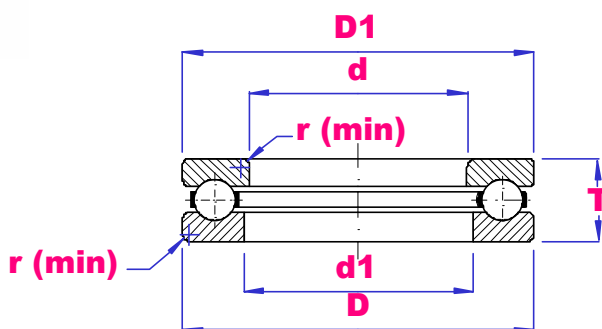


# UBC

## 511/512/513/51400

### THRUST BEARINGS

#### 50 – 85 MM ID



| PART NO | d mm | d1 mm | D mm | D1 mm | T mm | rmin mm | Load D-kN | Load S-kN | LimitingSpeed Grease | Oil  | Wgt g |
|---------|------|-------|------|-------|------|---------|-----------|-----------|----------------------|------|-------|
| 51110   | 50   | 52    | 70   | 70    | 14   | 0.6     | 25.4      | 75.5      | 3200                 | 4800 | 165   |
| 51210   |      | 52    | 78   | 78    | 22   | 1.0     | 50.0      | 111       | 2400                 | 3600 | 346   |
| 51310   |      | 52    | 95   | 95    | 31   | 1.1     | 86.5      | 202       | 1800                 | 2800 | 932   |
| 51410   |      | 52    | 110  | 110   | 43   | 1.5     | 156       | 310       | 1500                 | 2000 | 2180  |
| 51111   | 55   | 57    | 78   | 78    | 16   | 0.6     | 31.1      | 93.1      | 2800                 | 4300 | 247   |
| 51211   |      | 57    | 90   | 90    | 25   | 1.0     | 61.1      | 159       | 2200                 | 3200 | 382   |
| 51311   |      | 57    | 105  | 105   | 35   | 1.1     | 102       | 244       | 1600                 | 2400 | 1310  |
| 51411   |      | 57    | 120  | 120   | 48   | 1.5     | 180       | 360       | 1200                 | 1800 | 2910  |
| 51112   | 60   | 62    | 85   | 85    | 17   | 1.0     | 36.5      | 113       | 2600                 | 4000 | 281   |
| 51212   |      | 62    | 95   | 95    | 26   | 1.0     | 62.2      | 169       | 2000                 | 3000 | 649   |
| 51312   |      | 62    | 110  | 110   | 35   | 1.1     | 100       | 263       | 1600                 | 2400 | 1360  |
| 51412   |      | 62    | 130  | 130   | 51   | 1.5     | 200       | 400       | 1000                 | 1700 | 3710  |
| 51113   | 65   | 67    | 90   | 90    | 18   | 1.0     | 37.5      | 117       | 2400                 | 3800 | 324   |
| 51213   |      | 67    | 100  | 100   | 27   | 1.0     | 63.8      | 189       | 1900                 | 2800 | 756   |
| 51313   |      | 67    | 115  | 115   | 36   | 1.1     | 106       | 282       | 1500                 | 2400 | 1540  |
| 51413   |      | 67    | 140  | 140   | 56   | 2.0     | 216       | 450       | 900                  | 1600 | 4670  |
| 51114   | 70   | 72    | 95   | 95    | 18   | 1.0     | 39.8      | 127       | 2300                 | 3600 | 346   |
| 51214   |      | 72    | 105  | 105   | 27   | 1.0     | 65.5      | 189       | 1800                 | 2700 | 793   |
| 51314   |      | 72    | 125  | 125   | 40   | 1.1     | 137       | 315       | 1400                 | 2000 | 2010  |
| 51414   |      | 73    | 150  | 150   | 60   | 2.0     | 236       | 500       | 850                  | 1600 | 5720  |
| 51115   | 75   | 77    | 100  | 100   | 19   | 1.0     | 44.1      | 131       | 2200                 | 3400 | 389   |
| 51215   |      | 77    | 110  | 110   | 27   | 1.0     | 67.5      | 209       | 1800                 | 2600 | 845   |
| 51315   |      | 77    | 135  | 135   | 44   | 1.5     | 163       | 365       | 1300                 | 1900 | 2610  |
| 51415   |      | 78    | 160  | 160   | 65   | 2.0     | 250       | 560       | 750                  | 1500 | 7060  |
| 51116   | 80   | 82    | 105  | 105   | 19   | 1.0     | 45.5      | 141       | 2100                 | 3300 | 417   |
| 51216   |      | 82    | 115  | 115   | 28   | 1.0     | 76.5      | 218       | 1700                 | 2500 | 931   |
| 51316   |      | 82    | 140  | 140   | 44   | 1.5     | 160       | 395       | 1300                 | 1800 | 2740  |
| 51416   |      | 83    | 170  | 170   | 68   | 2.1     | 270       | 620       | 700                  | 1400 | 8230  |
| 51117   | 85   | 87    | 110  | 110   | 19   | 1.0     | 46.5      | 150       | 2200                 | 3200 | 441   |
| 51217   |      | 88    | 125  | 125   | 31   | 1.0     | 98.1      | 264       | 1600                 | 2400 | 1220  |
| 51317   |      | 88    | 150  | 150   | 49   | 1.5     | 186       | 490       | 1100                 | 1700 | 3570  |
| 51417   |      | 88    | 177  | 180   | 72   | 2.1     | 290       | 680       | 650                  | 1350 | 9790  |



# UBC

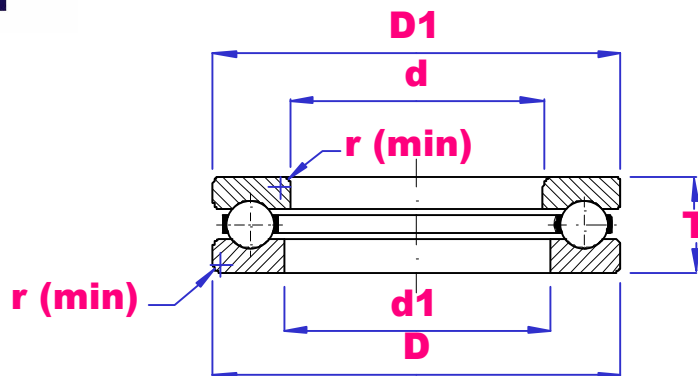
## 511/512/513/51400

### THRUST BEARINGS

#### 90 – 240 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| PART NO | d mm | d1 mm | D mm | D1 mm | T mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting Grease | Speed Oil | Wgt kg |
|---------|------|-------|------|-------|------|---------------------|-----------|-----------|-----------------|-----------|--------|
| 51118   | 90   | 92    | 120  | 120   | 22   | 1.0                 | 60.1      | 190       | 1500            | 2800      | 0.632  |
| 51218   |      | 93    | 135  | 135   | 35   | 1.1                 | 114       | 300       | 1000            | 2000      | 1.67   |
| 51318   |      | 93    | 155  | 155   | 50   | 1.5                 | 214       | 455       | 900             | 1700      | 4.02   |
| 51418   |      | 93    | 187  | 190   | 77   | 2.1                 | 305       | 750       | 800             | 1200      | 9.91   |
| 51120   | 100  | 102   | 135  | 135   | 25   | 1.0                 | 86.0      | 270       | 1300            | 2200      | 0.937  |
| 51220   |      | 103   | 150  | 150   | 38   | 1.1                 | 135       | 320       | 950             | 1900      | 2.12   |
| 51320   |      | 103   | 170  | 170   | 55   | 1.5                 | 239       | 585       | 700             | 1500      | 4.85   |
| 51420   |      | 103   | 205  | 210   | 85   | 3.0                 | 365       | 965       | 650             | 1000      | 13.6   |
| 51122   | 110  | 112   | 145  | 145   | 25   | 1.0                 | 88.5      | 290       | 1200            | 2100      | 1.12   |
| 51222   |      | 113   | 160  | 160   | 38   | 1.1                 | 142       | 360       | 850             | 1800      | 2.43   |
| 51322   |      | 113   | 187  | 190   | 63   | 2.0                 | 280       | 750       | 630             | 1400      | 7.08   |
| 51124   | 120  | 122   | 155  | 155   | 25   | 1.0                 | 92.1      | 310       | 1200            | 2000      | 1.25   |
| 51224   |      | 123   | 170  | 170   | 39   | 1.1                 | 155       | 390       | 800             | 1700      | 2.71   |
| 51324   |      | 123   | 205  | 210   | 70   | 2.1                 | 325       | 915       | 750             | 1200      | 9.85   |
| 51126   | 130  | 132   | 170  | 170   | 30   | 1.0                 | 112       | 390       | 1100            | 1800      | 1.67   |
| 51226   |      | 133   | 187  | 190   | 45   | 1.5                 | 183       | 540       | 700             | 1600      | 4.17   |
| 51128   | 140  | 142   | 178  | 180   | 31   | 1.0                 | 115       | 400       | 1000            | 1800      | 1.81   |
| 51228   |      | 143   | 197  | 200   | 46   | 1.5                 | 193       | 570       | 650             | 1500      | 4.49   |
| 51130   | 150  | 152   | 188  | 190   | 31   | 1.0                 | 119       | 410       | 1000            | 1700      | 1.96   |
| 51230   |      | 153   | 212  | 215   | 50   | 1.5                 | 236       | 735       | 600             | 1400      | 5.61   |
| 51132   | 160  | 162   | 198  | 200   | 31   | 1.0                 | 124       | 430       | 900             | 1700      | 2.38   |
| 51232   |      | 163   | 222  | 225   | 51   | 1.5                 | 245       | 780       | 600             | 1300      | 6.08   |
| 51134   | 170  | 172   | 213  | 215   | 34   | 1.1                 | 132       | 500       | 850             | 1600      | 2.64   |
| 51136   | 180  | 183   | 222  | 225   | 34   | 1.1                 | 134       | 530       | 800             | 1500      | 2.86   |
| 51138   | 190  | 193   | 237  | 240   | 37   | 1.1                 | 170       | 655       | 750             | 1400      | 3.62   |
| 51140   | 200  | 203   | 247  | 250   | 37   | 1.1                 | 177       | 680       | 700             | 1300      | 3.60   |
| 51144   | 220  | 223   | 267  | 270   | 37   | 1.1                 | 184       | 735       | 700             | 1200      | 4.45   |
| 51148   | 240  | 243   | 297  | 300   | 45   | 1.5                 | 232       | 965       | 650             | 1000      | 7.28   |

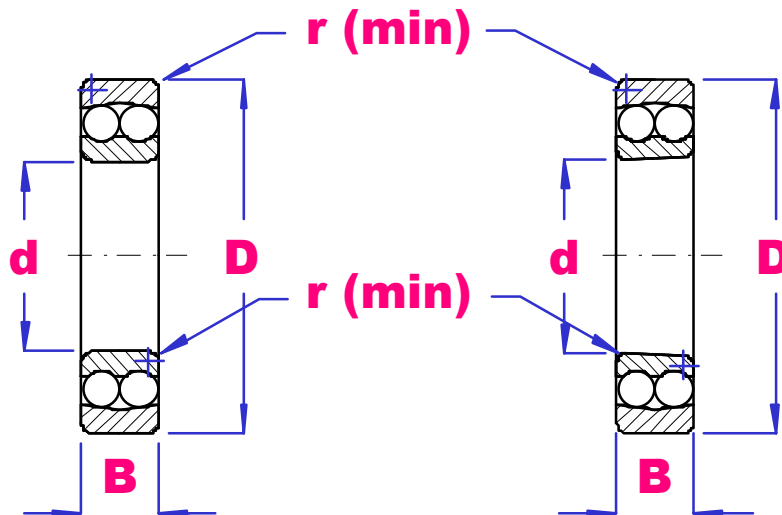


# UBC

## 1200/2200

### SELF ALIGNING BALL BEARINGS

#### 10 – 60 MM ID



| PART NO | d mm | D mm | B mm | rmin mm | Load D-kN | Load S-kN | Limiting speed |        | Wgt g |
|---------|------|------|------|---------|-----------|-----------|----------------|--------|-------|
|         |      |      |      |         |           |           | oil            | grease |       |
| 1200    | 10   | 30   | 9    | 0.6     | 5.55      | 1.19      | 28000          | 22000  | 33    |
| 1201    | 12   | 32   | 10   | 0.6     | 5.70      | 1.27      | 26000          | 22000  | 39    |
| 1202    | 15   | 35   | 11   | 0.6     | 7.60      | 1.75      | 22000          | 18000  | 48    |
| 1203    | 17   | 40   | 12   | 0.6     | 8.00      | 2.01      | 20000          | 16000  | 72    |
| 1204    | 20   | 47   | 14   | 1.0     | 10.0      | 2.61      | 17000          | 14000  | 121   |
| 2204    |      |      | 18   | 1.0     | 12.8      | 3.30      | 17000          | 14000  | 133   |
| 1205    | 25   | 52   | 15   | 1.0     | 12.2      | 3.30      | 14000          | 12000  | 142   |
| 2205    |      |      | 18   | 1.0     | 12.4      | 3.45      | 14000          | 12000  | 153   |
| 1206    | 30   | 62   | 16   | 1.0     | 15.8      | 4.65      | 12000          | 10000  | 221   |
| 2206    |      |      | 20   | 1.0     | 15.3      | 4.55      | 12000          | 10000  | 249   |
| 1207    | 35   | 72   | 17   | 1.1     | 15.9      | 5.10      | 10000          | 8500   | 322   |
| 2207    |      |      | 23   | 1.1     | 21.7      | 6.60      | 10000          | 8500   | 378   |
| 1208    | 40   | 80   | 18   | 1.1     | 19.3      | 6.50      | 9000           | 7500   | 415   |
| 2208    |      |      | 23   | 1.1     | 22.4      | 7.35      | 9000           | 7500   | 477   |
| 1209    | 45   | 85   | 19   | 1.1     | 22.0      | 7.35      | 8500           | 7100   | 465   |
| 2209    |      |      | 23   | 1.1     | 23.3      | 8.15      | 8500           | 7100   | 522   |
| 1210    | 50   | 90   | 20   | 1.1     | 22.8      | 8.10      | 8000           | 6300   | 525   |
| 2210    |      |      | 23   | 1.1     | 23.4      | 8.50      | 8000           | 6300   | 564   |
| 1211    | 55   | 100  | 21   | 1.5     | 26.9      | 10.0      | 7100           | 6000   | 705   |
| 2211    |      |      | 25   | 1.5     | 26.7      | 9.90      | 7100           | 6000   | 746   |
| 1212    | 60   | 110  | 22   | 1.5     | 30.5      | 11.5      | 6300           | 5300   | 905   |
| 2212    |      |      | 28   | 1.5     | 34.0      | 12.6      | 6300           | 5300   | 1032  |

AVAILABLE IN TAPERED BORE "K" SUFFIX



# UBC

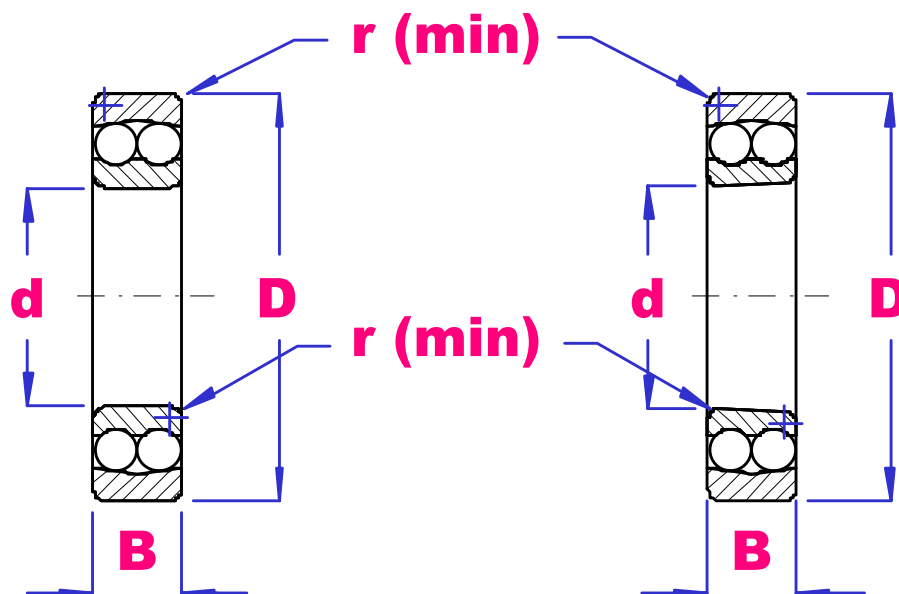
## 1200/2200

### SELF ALIGNING BALL BEARINGS

#### 65 – 110 MM ID



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| PART NO | d mm | D mm | B mm | r <sub>min</sub> mm | Load D-kN | Load S-kN | Limiting speed oil | grease | Wgt g |
|---------|------|------|------|---------------------|-----------|-----------|--------------------|--------|-------|
| 1213    | 65   | 120  | 23   | 1.5                 | 31.0      | 12.5      | 6000               | 4800   | 1153  |
| 2213    |      |      | 31   | 1.5                 | 43.5      | 16.4      | 6000               | 4800   | 1422  |
| 1214    | 70   | 125  | 24   | 1.5                 | 35.0      | 13.8      | 5600               | 4800   | 1305  |
| 2214    |      |      | 31   | 1.5                 | 44.0      | 17.1      | 5600               | 4500   | 1472  |
| 1215    | 75   | 130  | 25   | 1.5                 | 39.0      | 15.7      | 5300               | 4300   | 1352  |
| 2215    |      |      | 31   | 1.5                 | 44.5      | 17.8      | 5300               | 4300   | 1544  |
| 1216    | 80   | 140  | 26   | 2.0                 | 40.2      | 17.1      | 5000               | 4100   | 1660  |
| 2216    |      |      | 33   | 2.0                 | 49        | 20        | 5000               | 4100   | 2120  |
| 1217    | 85   | 150  | 28   | 2.0                 | 49        | 20.4      | 4800               | 3900   | 2060  |
| 2217    |      |      | 36   | 2.0                 | 58.5      | 23.6      | 4800               | 3900   | 2680  |
| 1218    | 90   | 160  | 30   | 2.0                 | 57        | 23.6      | 4500               | 3700   | 2510  |
| 2218    |      |      | 40   | 2.0                 | 71        | 28.5      | 4500               | 3600   | 3320  |
| 1219    | 95   | 170  | 32   | 2.1                 | 64        | 27        | 4300               | 3500   | 3470  |
| 2219    |      |      | 43   | 2.1                 | 83        | 34        | 4300               | 3400   | 4120  |
| 1220    | 100  | 180  | 34   | 2.1                 | 69.5      | 29        | 4100               | 3300   | 3290  |
| 2220    |      |      | 46   | 2.1                 | 98        | 40.5      | 4000               | 3200   | 4980  |
| 1222    | 110  | 200  | 38   | 2.1                 | 88        | 38        | 3900               | 3100   | 5670  |
| 2222    |      |      | 53   | 2.1                 | 125       | 52        | 3700               | 2900   | 6940  |

AVAILABLE IN TAPERED BORE "K" SUFFIX

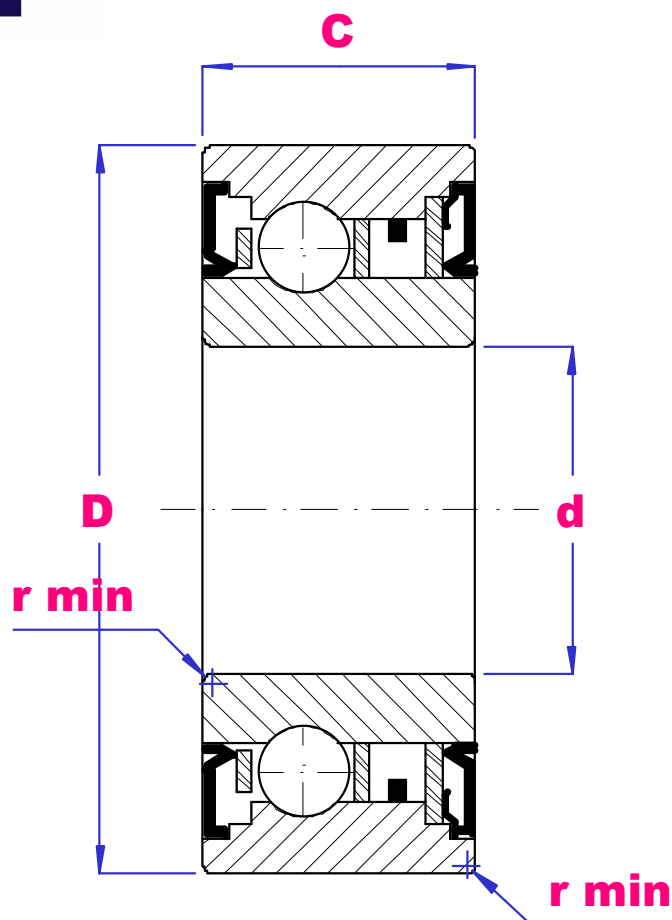


# UBC

## CSK SERIES ONE WAY/SPRAG BALL BEARINGS



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| PART<br>NO   | d  | D  | C  | r<br>min | TORQUE<br>Nm | LOAD RATING |       | SPEED<br>RPM | WGT<br>g |
|--------------|----|----|----|----------|--------------|-------------|-------|--------------|----------|
|              |    |    |    |          |              | DkN         | SkN   |              |          |
| <b>CSK15</b> | 15 | 35 | 16 | 0.6      | 29           | 7.4         | 3.42  | 8400         | 70       |
| <b>CSK17</b> | 17 | 40 | 17 | 0.6      | 43           | 7.9         | 3.81  | 7350         | 90       |
| <b>CSK20</b> | 20 | 47 | 19 | 1.0      | 61           | 9.4         | 4.46  | 6000         | 145      |
| <b>CSK25</b> | 25 | 52 | 20 | 1.0      | 78           | 10.7        | 5.46  | 5200         | 175      |
| <b>CSK30</b> | 30 | 62 | 21 | 1.1      | 140          | 11.7        | 6.45  | 4200         | 270      |
| <b>CSK35</b> | 35 | 72 | 22 | 1.1      | 173          | 12.6        | 7.28  | 3600         | 400      |
| <b>CSK40</b> | 40 | 80 | 27 | 1.1      | 260          | 15.5        | 12.25 | 3000         | 600      |

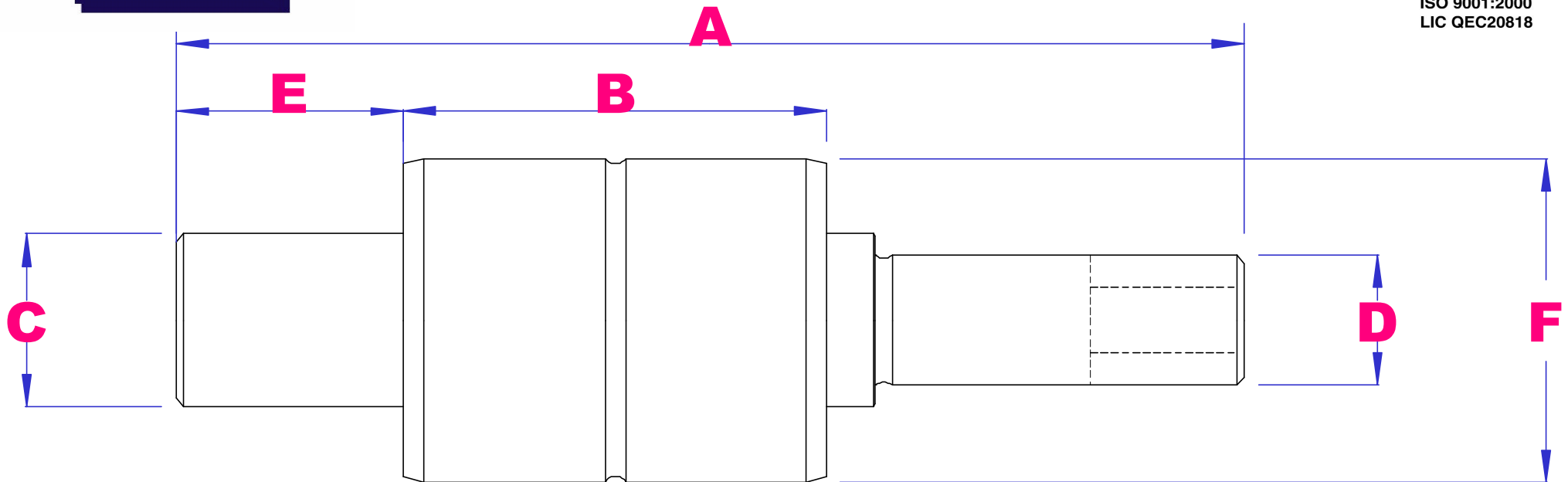


# UBC

## WATERPUMP / INTEGRAL SHAFT BEARINGS



Quality  
Endorsed  
Company  
ISO 9001:2000  
LIC QEC20818



| UBC PART NO. | A      | B     | C      | D           | E      | F      | SPECIAL FEATURES                                           |
|--------------|--------|-------|--------|-------------|--------|--------|------------------------------------------------------------|
| NBWP/IB07330 | 75.00  | 39.00 | 15.875 | 15.875      | 4.00   | 29.972 | Grease Nipple & Groove - 1/4 Dia. Hole 13mm from shaft end |
| W2450-2/F    | 86.00  | 39.00 | 15.875 | 15.875      | 4.00   | 29.972 |                                                            |
| BWF30-119Z   | 98.50  | 39.00 | 15.875 | 15.875/12mm | 38.00  | 29.972 | Shaft Dia reduces to 12mm Dia. 33.5mm from end of shaft.   |
| FPS61        | 166.12 | 38.86 | 15.875 | 15.875      | 63.246 | 29.972 | Soft Shaft - Induction hardened Raceway                    |
| WR1635101    | 101.1  | 39.00 | 15.925 | 12.00       | 24.00  | 35.00  | <b>BALL/ROLLER TYPE</b>                                    |
| FPS72        | 181.36 | 54.10 | 19.050 | 19.050      | 63.25  | 38.100 | Soft Shaft - Induction hardened Raceway                    |
| WR2552208    | 208    | 56.00 | 25.00  | 15.92       | 50.00  | 52.00  | <b>BALL/ROLLER TYPE M14 THREAD 18MM LONG "C" END</b>       |

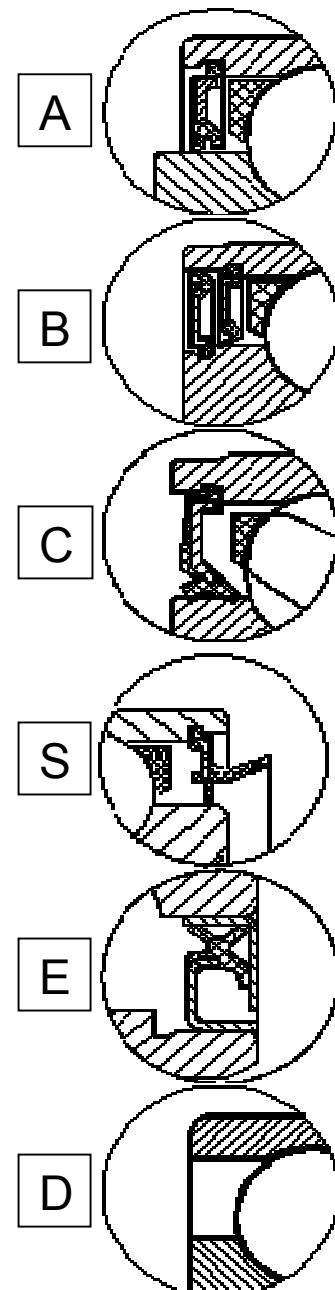
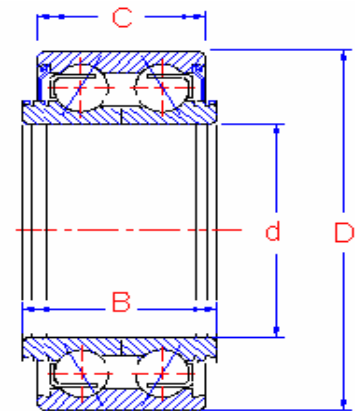


# UBC

## WHEEL BEARINGS DOUBLE ROW ANGULAR CONTACT



| PART NO        | d  | D     | B  | C  | SEAL |
|----------------|----|-------|----|----|------|
| DAC25520037    | 25 | 52    | 37 | 37 | C    |
| DAC27600050    | 27 | 60    | 50 | 50 | C    |
| DAC28580042    | 28 | 58    | 42 | 42 | C    |
| DAC28610042    | 28 | 61    | 42 | 42 | D    |
| DAC29530037    | 29 | 53    | 37 | 37 | E    |
| DAC30580042    | 30 | 58    | 42 | 42 | C    |
| DAC30600337    | 30 | 60.03 | 37 | 37 | C    |
| DAC30640042    | 30 | 64    | 42 | 42 | C    |
| DAC34640037    | 34 | 64    | 37 | 37 | B    |
| DAC34660037    | 34 | 60    | 37 | 37 | C    |
| DAC35640037    | 35 | 64    | 37 | 37 | B    |
| DAC35680233/30 | 35 | 68.02 | 33 | 30 | D    |
| DAC35680039/36 | 35 | 68    | 39 | 36 | D    |
| DAC35720233/31 | 35 | 72.02 | 33 | 31 | D    |
| DAC35720034    | 35 | 72    | 34 | 34 | D    |
| DAC36680033    | 36 | 68    | 33 | 33 | D    |
| DAC36720534    | 36 | 72.05 | 34 | 34 | D    |
| DAC37720237    | 37 | 72.02 | 37 | 37 | C    |
| DAC37740045    | 37 | 74    | 45 | 45 | C    |
| DAC38650052/48 | 38 | 65    | 52 | 48 | C    |
| DAC38700037    | 38 | 70    | 37 | 37 | E    |
| DAC38700038    | 38 | 70    | 38 | 38 | B    |
| DAC38710233/30 | 38 | 71.02 | 33 | 30 | D    |
| DAC38740036/33 | 38 | 74    | 36 | 33 | C    |
| DAC38720236/33 | 38 | 72.02 | 36 | 33 | D    |
| DAC38730040    | 38 | 73    | 40 | 40 | B    |
| DAC38740236/33 | 38 | 74.02 | 36 | 33 | D    |
| DAC38740050    | 38 | 74    | 50 | 50 | S    |
| DAC39680037    | 39 | 68    | 37 | 37 | B    |
| DAC39720637    | 39 | 72.06 | 37 | 37 | B    |
| DAC39740039    | 39 | 74    | 39 | 39 | C    |
| DAC40720036/33 | 40 | 72    | 36 | 33 | D    |
| DAC40720037    | 40 | 72    | 37 | 37 | C    |
| DAC40740036/34 | 40 | 74    | 36 | 34 | D    |
| DAC40740040    | 40 | 74    | 40 | 40 | C    |
| DAC40740042    | 40 | 74    | 42 | 42 | E    |
| DAC40750037    | 40 | 75    | 37 | 37 | C    |
| DAC40760033    | 40 | 76    | 33 | 33 | E    |
| DAC40760041/38 | 40 | 76    | 41 | 38 | D    |
| DAC40800036/34 | 40 | 80    | 36 | 34 | C    |
| DAC42720038/35 | 42 | 72    | 38 | 35 | C    |
| DAC42750037    | 42 | 75    | 37 | 37 | C    |
| DAC42760033    | 42 | 76    | 33 | 33 | C    |
| DAC42760038/35 | 42 | 76    | 38 | 35 | D    |
| DAC42760039    | 42 | 76    | 39 | 39 | A    |
| DAC42760040/37 | 42 | 76    | 40 | 37 | A    |
| DAC42780041/38 | 42 | 78    | 41 | 38 | A    |
| DAC42780045    | 42 | 78    | 45 | 45 | E    |
| DAC42800045    | 42 | 80    | 45 | 45 | E    |
| DAC42800342    | 42 | 80.03 | 42 | 42 | C    |
| DAC43790041/38 | 43 | 79    | 41 | 38 | E    |
| DAC43800050/45 | 43 | 80    | 50 | 45 | D    |
| DAC43820045    | 43 | 82    | 45 | 45 | E    |
| DAC45840039    | 45 | 84    | 39 | 39 | C    |
| DAC45840039/41 | 45 | 84    | 39 | 41 | C    |



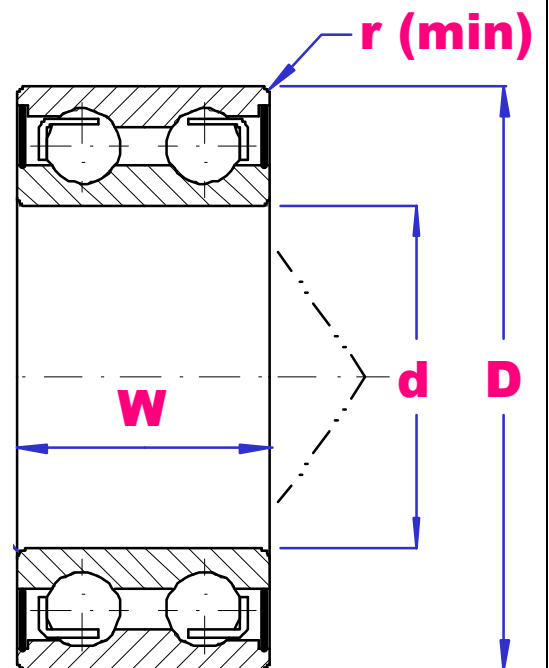


# UBC

## AIR CONDITIONER COMPRESSOR BEARINGS



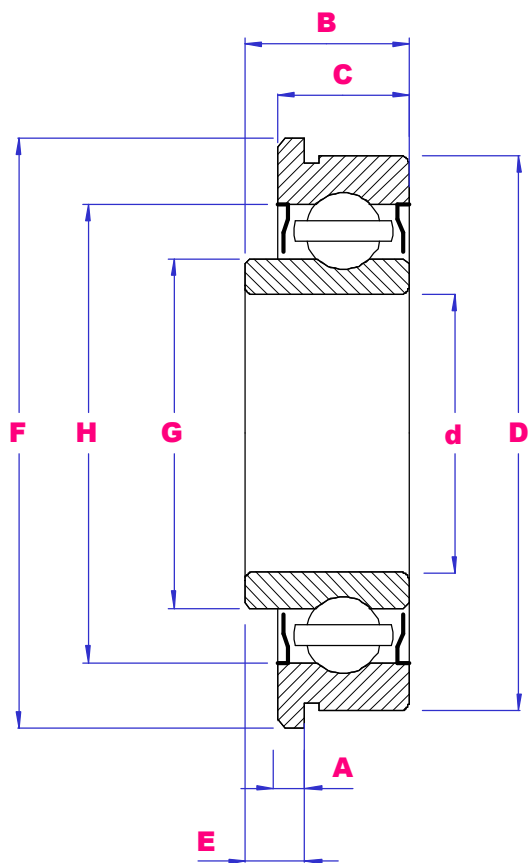
| PART<br>NO   | d  | D  | W    | Wgt<br>g |
|--------------|----|----|------|----------|
| ACB30500020  | 30 | 50 | 20   | 130      |
| ACB30520022  | 30 | 52 | 22   | 160      |
| ACB30550023  | 30 | 55 | 23   | 200      |
| ACB32470018  | 32 | 47 | 18   | 80       |
| ACB32550023  | 32 | 55 | 23   | 180      |
| ACB35500020  | 35 | 50 | 20   | 90       |
| ACB35520020  | 35 | 52 | 20   | 110      |
| ACB35520022  | 35 | 52 | 22   | 120      |
| ACB35550020  | 35 | 55 | 20   | 140      |
| ACB35620021  | 35 | 62 | 21   | 220      |
| ACB38540017  | 38 | 54 | 17   | 105      |
| ACB40570024  | 40 | 57 | 24   | 160      |
| ACB406200206 | 40 | 62 | 20.6 | 190      |
| ACB40620024  | 40 | 62 | 24   | 220      |
| ACB40680030  | 40 | 68 | 30   | 370      |
| ACB45750032  | 45 | 75 | 32   | 450      |





# UBC

## SEMI PRECISION BALL BEARINGS



Rubber sealed  
both sides

Zinc plated  
all external surfaces

| PART NO         | d(in) | D(in) | A(mm) | B(mm) | C(mm) | E(mm) | F(mm) | G(mm) | H(mm) |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>S18054SP</b> | 5/16  | 1-1/8 | 1.58  | 9.50  | 7.80  | 3.17  | 31.00 | 17.00 | 25.00 |
| <b>S18064SP</b> | 3/8   | 1-1/8 | 1.58  | 9.50  | 7.80  | 3.17  | 31.00 | 17.00 | 25.00 |
| <b>S18074SP</b> | 7/16  | 1-1/8 | 1.58  | 9.50  | 7.80  | 3.17  | 31.00 | 17.00 | 25.00 |
| <b>S18084SP</b> | 1/2   | 1-1/8 | 1.58  | 9.50  | 7.80  | 3.17  | 31.00 | 17.00 | 25.00 |
| <b>S22064SP</b> | 3/8   | 1-3/8 | 1.58  | 11.90 | 10.50 | 3.17  | 38.00 | 23.00 | 31.00 |
| <b>S22084SP</b> | 1/2   | 1-3/8 | 1.58  | 11.90 | 10.50 | 3.17  | 38.00 | 23.00 | 31.00 |
| <b>S22104SP</b> | 5/8   | 1-3/8 | 1.58  | 11.90 | 10.50 | 3.17  | 38.00 | 23.00 | 31.00 |
| <b>S22124SP</b> | 3/4   | 1-3/8 | 1.58  | 11.90 | 10.50 | 3.17  | 38.00 | 23.00 | 31.00 |
| <b>S35201SP</b> | 20mm  | 35mm  | 1.58  | 11.90 | 10.50 | 3.17  | 38.00 | 23.00 | 31.00 |
| <b>S28104SP</b> | 5/8   | 1-3/4 | 1.58  | 14.90 | 13.80 | 3.40  | 47.00 | 27.00 | 37.00 |
| <b>S28124SP</b> | 3/4   | 1-3/4 | 1.58  | 14.90 | 13.80 | 3.40  | 47.00 | 27.00 | 37.00 |
| <b>S28164SP</b> | 1     | 1-3/4 | 1.58  | 14.90 | 13.80 | 3.40  | 47.00 | 27.00 | 37.00 |
| <b>S32124SP</b> | 3/4   | 2     | 2.50  | 15.50 | 12.70 | 5.00  | 54.00 | 32.00 | 42.00 |
| <b>S32164SP</b> | 1     | 2     | 2.50  | 15.50 | 12.70 | 5.00  | 54.00 | 32.00 | 42.00 |



# UBC METRIC STEEL BALLS



| PART NO    | DIAMETER mm | Kg PER 1000 |
|------------|-------------|-------------|
| BALL 1MM   | 1.0         | 0.0041      |
| BALL 1.5MM | 1.5         | 0.0126      |
| BALL 2MM   | 2.0         | 0.0326      |
| BALL 2.5MM | 2.5         | 0.0637      |
| BALL 3MM   | 3.0         | 0.111       |
| BALL 3.5MM | 3.5         | 0.175       |
| BALL 4MM   | 4.0         | 0.261       |
| BALL 4.5MM | 4.5         | 0.375       |
| BALL 5MM   | 5.0         | 0.510       |
| BALL 5.5MM | 5.5         | 0.685       |
| BALL 6MM   | 6.0         | 0.881       |
| BALL 6.5MM | 6.5         | 1.119       |
| BALL 7MM   | 7.0         | 1.410       |
| BALL 8MM   | 8.0         | 2.09        |
| BALL 9MM   | 9.0         | 2.97        |
| BALL 10MM  | 10.0        | 4.08        |
| BALL 11MM  | 11.0        | 5.42        |
| BALL 12MM  | 12.0        | 7.04        |
| BALL 13MM  | 13.0        | 9.03        |
| BALL 14MM  | 14.0        | 11.31       |
| BALL 15MM  | 15.0        | 13.95       |
| BALL 16MM  | 16.0        | 16.69       |
| BALL 17MM  | 17.0        | 20.02       |
| BALL 18MM  | 18.0        | 23.21       |
| BALL 19MM  | 19.0        | 27.96       |
| BALL 20MM  | 20.0        | 32.91       |
| BALL 22MM  | 22.0        | 43.80       |
| BALL 25MM  | 25.0        | 63.68       |
| BALL 28MM  | 28.0        | 89.47       |
| BALL 30MM  | 30.0        | 111.0       |
| BALL 35MM  | 35.0        | 174.75      |
| BALL 40MM  | 40.0        | 263.80      |
| BALL 45MM  | 45.0        | 375.4       |
| BALL 50MM  | 50.0        | 514.5       |



# UBC INCH STEEL BALLS



| PART NO     | DIAMETER inch | Kg PER 1000 |
|-------------|---------------|-------------|
| BALL-1/16   | 0.0625        | 0.0161      |
| BALL-3/32   | 0.09375       | 0.0552      |
| BALL-1/8    | 0.125         | 0.1311      |
| BALL-5/32   | 0.15625       | 0.255       |
| BALL-3/16   | 0.1875        | 0.441       |
| BALL-7/32   | 0.21875       | 0.699       |
| BALL-1/4    | 0.250         | 1.04        |
| BALL-9/32   | 0.28125       | 1.49        |
| BALL-5/16   | 0.3125        | 2.04        |
| BALL-11/32  | 0.34375       | 2.71        |
| BALL-3/8    | 0.375         | 3.52        |
| BALL-7/16   | 0.4375        | 5.61        |
| BALL-1/2    | 0.500         | 8.35        |
| BALL-9/16   | 0.5625        | 11.90       |
| BALL-5/8    | 0.625         | 16.30       |
| BALL-11/16  | 0.6875        | 21.71       |
| BALL-3/4    | 0.750         | 28.22       |
| BALL-13/16  | 0.8125        | 35.79       |
| BALL-7/8    | 0.875         | 44.78       |
| BALL-15/16  | 0.9375        | 55.10       |
| BALL-1      | 1.000         | 66.81       |
| BALL-1.1/16 | 1.0625        | 80.22       |
| BALL-1.1/8  | 1.125         | 95.20       |
| BALL-1.3/16 | 1.1875        | 112.10      |
| BALL-1.1/4  | 1.250         | 131.00      |
| BALL-1.3/8  | 1.375         | 174.00      |
| BALL-1.1/2  | 1.500         | 225.60      |
| BALL-1.3/4  | 1.750         | 358.30      |
| BALL-2      | 2.000         | 534.80      |



# INCHES – MILLIMETERS



| INCHES   |          | 0           | 1      | 2      | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
|----------|----------|-------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| FRACTION | DECIMAL  | MILLIMETERS |        |        |         |         |         |         |         |         |         |         |
| 0        | 0.000000 | 0.000       | 25.400 | 50.800 | 76.200  | 101.600 | 127.000 | 152.400 | 177.800 | 203.200 | 228.600 | 254.000 |
| 1/64     | 0.015625 | 0.397       | 25.797 | 51.197 | 76.597  | 101.997 | 127.397 | 152.797 | 178.197 | 203.597 | 228.997 | 254.397 |
| 1/32     | 0.031250 | 0.794       | 26.194 | 51.594 | 76.994  | 102.394 | 127.794 | 153.194 | 178.594 | 203.994 | 229.394 | 254.794 |
| 3/64     | 0.046875 | 1.191       | 26.591 | 51.991 | 77.391  | 102.791 | 128.191 | 153.591 | 178.991 | 204.391 | 229.791 | 255.191 |
| 1/16     | 0.062500 | 1.588       | 26.988 | 52.388 | 77.788  | 103.188 | 128.588 | 153.988 | 179.388 | 204.788 | 230.188 | 255.588 |
| 5/64     | 0.078125 | 1.984       | 27.384 | 52.784 | 78.184  | 103.584 | 128.984 | 154.384 | 179.784 | 205.184 | 230.584 | 255.984 |
| 3/32     | 0.093750 | 2.381       | 27.781 | 53.181 | 78.581  | 103.981 | 129.381 | 154.781 | 180.181 | 205.581 | 230.981 | 256.381 |
| 7/64     | 0.109375 | 2.778       | 28.178 | 53.578 | 78.978  | 104.378 | 129.778 | 155.178 | 180.578 | 205.978 | 231.378 | 256.778 |
| 1/8      | 0.125000 | 3.175       | 28.575 | 53.975 | 79.375  | 104.775 | 130.175 | 155.575 | 180.975 | 206.375 | 231.775 | 257.175 |
| 9/64     | 0.140625 | 3.572       | 28.973 | 54.372 | 79.772  | 105.172 | 130.572 | 155.972 | 181.372 | 206.772 | 232.172 | 257.572 |
| 5/32     | 0.156250 | 3.969       | 29.369 | 54.769 | 80.169  | 105.569 | 130.969 | 156.369 | 181.769 | 207.169 | 232.569 | 257.969 |
| 11/64    | 0.171875 | 4.366       | 29.766 | 55.166 | 80.566  | 105.966 | 131.366 | 156.766 | 182.166 | 207.566 | 232.966 | 258.366 |
| 3/16     | 0.187500 | 4.762       | 30.163 | 55.563 | 80.963  | 106.363 | 131.763 | 157.163 | 182.563 | 207.963 | 233.363 | 258.763 |
| 13/64    | 0.203125 | 5.159       | 30.559 | 55.559 | 81.359  | 106.759 | 132.159 | 157.559 | 182.959 | 208.359 | 233.759 | 259.159 |
| 7/32     | 0.218750 | 5.556       | 30.956 | 56.356 | 81.756  | 107.156 | 132.556 | 157.956 | 183.356 | 208.756 | 234.156 | 259.556 |
| 15/64    | 0.234375 | 5.953       | 31.353 | 56.753 | 82.153  | 107.553 | 132.953 | 158.353 | 183.753 | 209.153 | 234.553 | 259.953 |
| 1/4      | 0.250000 | 6.350       | 31.750 | 57.150 | 82.550  | 107.950 | 133.350 | 158.750 | 184.150 | 209.550 | 234.950 | 260.360 |
| 17/64    | 0.265625 | 6.747       | 32.147 | 57.547 | 82.947  | 108.347 | 133.747 | 159.147 | 184.547 | 209.947 | 235.347 | 260.747 |
| 9/32     | 0.281250 | 7.144       | 32.544 | 57.944 | 83.344  | 108.744 | 134.144 | 159.544 | 184.944 | 210.344 | 235.744 | 261.144 |
| 19/64    | 0.296875 | 7.541       | 32.941 | 58.341 | 83.741  | 109.141 | 134.541 | 159.941 | 185.341 | 210.741 | 236.141 | 261.541 |
| 5/16     | 0.312500 | 7.938       | 33.338 | 58.738 | 84.138  | 109.538 | 134.938 | 160.338 | 185.738 | 211.138 | 236.538 | 261.938 |
| 21/64    | 0.328125 | 8.334       | 33.734 | 59.134 | 84.534  | 109.934 | 135.334 | 160.734 | 186.134 | 211.534 | 236.934 | 262.334 |
| 11/32    | 0.343750 | 8.731       | 34.131 | 59.531 | 84.931  | 110.331 | 135.731 | 161.131 | 186.531 | 211.931 | 237.331 | 262.731 |
| 23/64    | 0.359375 | 9.128       | 34.528 | 59.928 | 85.328  | 110.728 | 136.128 | 161.528 | 186.928 | 212.328 | 237.728 | 263.138 |
| 3/8      | 0.375000 | 9.525       | 34.925 | 60.325 | 85.725  | 111.125 | 136.525 | 161.925 | 187.325 | 212.725 | 238.125 | 263.525 |
| 25/64    | 0.390625 | 9.922       | 35.322 | 60.722 | 86.122  | 111.522 | 136.922 | 162.322 | 187.722 | 213.122 | 238.522 | 263.922 |
| 13/32    | 0.406250 | 10.319      | 35.719 | 61.119 | 86.519  | 111.919 | 137.319 | 162.719 | 188.119 | 213.519 | 238.919 | 264.319 |
| 27/64    | 0.421875 | 10.716      | 36.116 | 61.516 | 86.916  | 112.316 | 137.716 | 163.116 | 188.516 | 213.916 | 239.316 | 264.716 |
| 7/16     | 0.437500 | 11.113      | 36.513 | 61.913 | 87.313  | 112.713 | 138.113 | 163.513 | 188.913 | 214.313 | 239.713 | 265.113 |
| 29/64    | 0.453125 | 11.509      | 36.909 | 62.309 | 87.709  | 113.109 | 138.509 | 163.909 | 189.309 | 214.709 | 240.109 | 265.509 |
| 15/32    | 0.468750 | 11.906      | 37.306 | 62.706 | 88.106  | 113.506 | 138.906 | 164.306 | 189.706 | 215.106 | 240.506 | 265.906 |
| 31/32    | 0.484375 | 12.303      | 37.703 | 63.103 | 88.503  | 113.903 | 139.303 | 164.703 | 190.103 | 215.503 | 240.903 | 266.303 |
| 1/2      | 0.500000 | 12.700      | 38.100 | 63.500 | 88.900  | 114.300 | 139.700 | 165.100 | 190.500 | 215.900 | 241.300 | 266.700 |
| 33/64    | 0.515625 | 13.097      | 38.497 | 63.897 | 89.297  | 114.697 | 140.097 | 165.495 | 190.897 | 216.297 | 241.697 | 267.097 |
| 17/32    | 0.531250 | 13.494      | 38.894 | 64.294 | 89.694  | 115.094 | 140.494 | 165.894 | 191.294 | 216.694 | 242.094 | 267.494 |
| 35/64    | 0.546875 | 13.891      | 39.291 | 64.691 | 90.091  | 115.491 | 140.891 | 166.291 | 191.691 | 217.091 | 242.491 | 267.891 |
| 9/16     | 0.562500 | 14.288      | 39.688 | 65.088 | 90.488  | 115.888 | 141.288 | 166.688 | 192.088 | 217.488 | 242.888 | 268.288 |
| 37/64    | 0.578125 | 14.684      | 40.084 | 65.484 | 90.884  | 116.284 | 141.684 | 167.084 | 192.484 | 217.884 | 243.284 | 268.684 |
| 19/32    | 0.593750 | 15.081      | 40.481 | 65.881 | 91.281  | 116.681 | 142.081 | 167.481 | 192.881 | 218.281 | 243.681 | 269.081 |
| 39/64    | 0.609375 | 15.478      | 40.878 | 66.278 | 91.678  | 117.078 | 142.478 | 167.878 | 193.278 | 218.678 | 244.078 | 269.478 |
| 5/8      | 0.625000 | 15.875      | 41.275 | 66.675 | 92.075  | 117.475 | 142.875 | 168.275 | 193.675 | 219.075 | 244.475 | 269.875 |
| 41/64    | 0.640625 | 16.272      | 41.672 | 67.072 | 92.472  | 117.872 | 143.272 | 168.672 | 194.072 | 219.472 | 244.872 | 270.272 |
| 21/32    | 0.656250 | 16.669      | 42.069 | 67.469 | 92.869  | 118.269 | 143.669 | 169.069 | 194.469 | 219.869 | 245.269 | 270.669 |
| 43/64    | 0.671875 | 17.066      | 42.466 | 67.866 | 93.266  | 118.666 | 144.066 | 169.466 | 194.866 | 220.266 | 245.666 | 271.066 |
| 11/16    | 0.687500 | 17.463      | 42.863 | 68.263 | 93.663  | 119.063 | 144.463 | 169.863 | 195.263 | 220.663 | 246.063 | 271.463 |
| 45/64    | 0.703125 | 17.859      | 43.259 | 68.659 | 94.059  | 119.459 | 144.859 | 170.259 | 195.659 | 221.059 | 246.459 | 271.859 |
| 23/32    | 0.718750 | 18.256      | 43.656 | 69.056 | 94.456  | 119.856 | 145.256 | 170.656 | 196.056 | 221.456 | 246.856 | 272.256 |
| 47/64    | 0.734375 | 18.653      | 44.053 | 69.453 | 94.853  | 120.253 | 145.653 | 171.053 | 196.453 | 221.853 | 247.253 | 272.653 |
| 3/4      | 0.750000 | 19.050      | 44.450 | 69.850 | 95.250  | 120.650 | 146.050 | 171.450 | 196.850 | 222.250 | 247.650 | 273.050 |
| 49/64    | 0.765625 | 19.447      | 44.847 | 70.247 | 95.647  | 121.047 | 146.447 | 171.847 | 197.247 | 222.647 | 248.047 | 273.447 |
| 25/32    | 0.781250 | 19.844      | 45.244 | 70.644 | 96.044  | 121.444 | 146.844 | 172.244 | 197.644 | 223.044 | 248.444 | 273.844 |
| 51/64    | 0.796875 | 20.241      | 45.641 | 71.041 | 96.441  | 121.841 | 147.241 | 172.641 | 198.041 | 223.441 | 248.841 | 274.241 |
| 13/16    | 0.812500 | 20.638      | 46.038 | 71.438 | 96.838  | 122.238 | 147.638 | 173.038 | 198.438 | 223.838 | 249.238 | 274.638 |
| 53/64    | 0.828125 | 21.034      | 46.434 | 71.834 | 97.234  | 122.634 | 148.034 | 173.434 | 198.834 | 224.234 | 249.634 | 275.034 |
| 27/32    | 0.843750 | 21.431      | 46.831 | 72.231 | 97.631  | 123.031 | 148.431 | 173.831 | 199.231 | 224.631 | 250.031 | 275.431 |
| 55/64    | 0.859375 | 21.828      | 47.228 | 72.628 | 98.028  | 123.428 | 148.828 | 174.228 | 199.628 | 225.028 | 250.428 | 275.828 |
| 7/8      | 0.875000 | 22.225      | 47.625 | 73.025 | 98.425  | 123.825 | 149.225 | 174.625 | 200.025 | 225.425 | 250.825 | 276.225 |
| 57/64    | 0.890625 | 22.622      | 48.022 | 73.422 | 98.822  | 124.222 | 149.622 | 175.022 | 200.422 | 225.822 | 251.222 | 276.622 |
| 29/32    | 0.906250 | 23.019      | 48.419 | 73.819 | 99.219  | 124.619 | 150.019 | 175.419 | 200.819 | 226.219 | 251.619 | 277.019 |
| 59/64    | 0.921875 | 23.416      | 48.816 | 74.216 | 99.616  | 125.016 | 150.416 | 175.816 | 201.216 | 226.616 | 252.016 | 277.416 |
| 15/16    | 0.937500 | 23.813      | 49.213 | 74.613 | 100.013 | 125.413 | 150.813 | 176.213 | 201.613 | 227.013 | 252.413 | 277.813 |
| 61/64    | 0.953125 | 24.209      | 49.609 | 75.009 | 100.409 | 125.809 | 151.209 | 176.609 | 202.009 | 227.409 | 252.809 | 278.209 |
| 31/32    | 0.968750 | 24.606      | 50.006 | 75.406 | 100.806 | 126.206 | 151.606 | 177.006 | 202.406 | 227.806 | 253.206 | 278.606 |
| 63/64    | 0.984375 | 25.003      | 50.403 | 75.803 | 101.203 | 126.603 | 152.003 | 177.403 | 202.803 | 228.203 | 253.603 | 279.003 |



# MILLIMETERS - - INCHES



| MM | 0       | 10      | 20      | 30      | 40      | 50      | 60      | 70      | 80      | 90      |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0  | 0.00000 | 0.39370 | 0.78740 | 1.18110 | 1.57480 | 1.96850 | 2.36220 | 2.75591 | 3.14961 | 3.54331 |
| 1  | 0.03937 | 0.43307 | 0.82677 | 1.22047 | 1.61417 | 2.00787 | 2.40157 | 2.79528 | 3.18898 | 3.58268 |
| 2  | 0.07874 | 0.47244 | 0.86614 | 1.25984 | 1.65354 | 2.04724 | 2.44094 | 2.83465 | 3.22835 | 3.62205 |
| 3  | 0.11811 | 0.51181 | 0.90551 | 1.29921 | 1.69291 | 2.08661 | 2.48031 | 2.87402 | 3.26772 | 3.66142 |
| 4  | 0.15748 | 0.55118 | 0.94488 | 1.33858 | 1.73228 | 2.12598 | 2.51969 | 2.91339 | 3.30709 | 3.70079 |
| 5  | 0.19685 | 0.59055 | 0.98425 | 1.37795 | 1.77165 | 2.16535 | 2.55906 | 2.95276 | 3.34646 | 3.74016 |
| 6  | 0.23622 | 0.62992 | 1.02362 | 1.41732 | 1.81102 | 2.20472 | 2.59843 | 2.99213 | 3.38583 | 3.77953 |
| 7  | 0.27559 | 0.66929 | 1.06299 | 1.45669 | 1.85039 | 2.24409 | 2.63780 | 3.03150 | 3.42520 | 3.81890 |
| 8  | 0.31496 | 0.70866 | 1.10236 | 1.49606 | 1.88976 | 2.28346 | 2.67717 | 3.07087 | 3.46457 | 3.85827 |
| 9  | 0.35433 | 0.74803 | 1.14173 | 1.53543 | 1.92913 | 2.32283 | 2.71653 | 3.11024 | 3.50394 | 3.89764 |

| MM    | INCH     | MM   | INCH     | MM  | INCH     |
|-------|----------|------|----------|-----|----------|
| 0.001 | 0.000039 | 0.01 | 0.000393 | 0.1 | 0.003937 |
| 0.002 | 0.000079 | 0.02 | 0.000787 | 0.2 | 0.007874 |
| 0.003 | 0.000118 | 0.03 | 0.001811 | 0.3 | 0.011811 |
| 0.004 | 0.000157 | 0.04 | 0.001575 | 0.4 | 0.015748 |
| 0.005 | 0.000197 | 0.05 | 0.001969 | 0.5 | 0.019685 |
| 0.006 | 0.000236 | 0.06 | 0.002362 | 0.6 | 0.023622 |
| 0.007 | 0.000276 | 0.07 | 0.002756 | 0.7 | 0.027559 |
| 0.008 | 0.000315 | 0.08 | 0.003150 | 0.8 | 0.031496 |
| 0.009 | 0.000354 | 0.09 | 0.003543 | 0.9 | 0.035433 |

| MM | 100     | 150     | 200     | 250     | 300     | 350     |
|----|---------|---------|---------|---------|---------|---------|
| 0  | 3.93701 | 5.90551 | 7.87402 | 9.84252 | 11.8110 | 13.7795 |
| 5  | 4.13386 | 6.10236 | 8.07087 | 10.0394 | 12.0079 | 13.9764 |
| 10 | 4.33071 | 6.29921 | 8.26772 | 10.2362 | 12.2047 | 14.1732 |
| 15 | 4.52756 | 6.49606 | 8.46457 | 10.4331 | 12.4016 | 14.3701 |
| 20 | 4.72441 | 6.69291 | 8.66142 | 10.6299 | 12.5984 | 14.5669 |
| 25 | 4.92126 | 6.88976 | 8.85827 | 10.8268 | 12.7953 | 14.7638 |
| 30 | 5.11811 | 7.09661 | 9.05512 | 11.0236 | 12.9921 | 14.9606 |
| 35 | 5.31496 | 7.28346 | 9.25197 | 11.2205 | 13.1890 | 15.1575 |
| 40 | 5.51181 | 7.48031 | 9.44882 | 11.4137 | 13.3858 | 15.3543 |
| 45 | 5.70866 | 7.67716 | 9.64567 | 11.6142 | 13.5827 | 15.5512 |







