



S M Q

**S M Q**  
**BEARINGS**

**杉優企業有限公司**  
**SAM Q ENTERPRISE CO., LTD.**

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**杉優企業有限公司**

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傳真 : 886-2-82181643

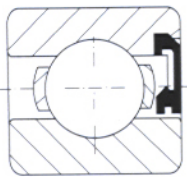
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軸承之規範，可以分為幾部份：

- 尺寸 軸承的內徑，外徑及寬度
- 材質 可分為碳鋼，鉻鉬鋼等
- 級數 有 ISO, AFBMA 及多種精度等級
- 間隙 不同型式的軸承有不同的間隙規範
- 公差 這與精度，等級有很直接的關係
- 震動 震動值與噪音是滾珠軸承很受重視的質量要求
- 安裝 干涉配合對軸承的壽命有直接關係

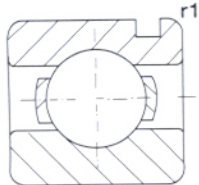
### 深沟球轴承系列 DEEP GROOVE BALL BEARING SERIES

单面密封圈(非接触式)  
Single Seal Ring (no contact)



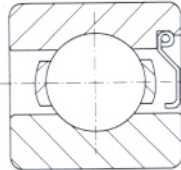
-RZ

止动环槽  
Snap Ring Groove



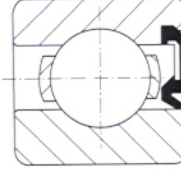
N

单面防尘盖  
Single Shielded



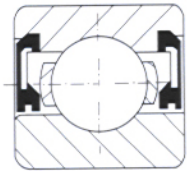
-Z

单面密封圈(接触式)  
Single Seal Ring (contact)



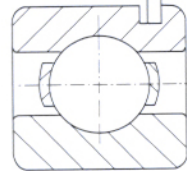
-RS

双面密封圈(非接触式)  
Double Seal Ring (no contact)



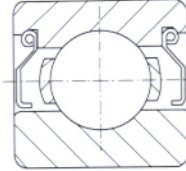
-2RZ

带止动环  
Locating Snap Ring



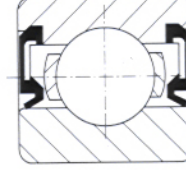
NR

双面防尘盖  
Double Shielded

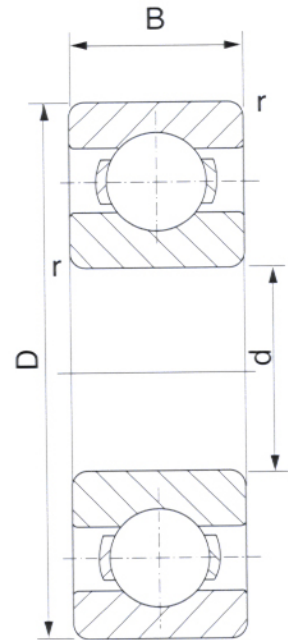


-2Z

双面密封圈(接触式)  
Double Seal Ring (contact)



-2RS



| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | r1min | Dynamic Cr              | Static Cor |                                     |
| 6000                 | 10                   | 26  | 8  | 0.3  | --    | 4.58                    | 1.97       | 0.019                               |
| 6001                 | 12                   | 28  | 8  | 0.3  | --    | 5.11                    | 2.39       | 0.021                               |
| 6002                 | 15                   | 32  | 9  | 0.3  | 0.3   | 5.59                    | 2.84       | 0.030                               |
| 6003                 | 17                   | 35  | 10 | 0.3  | 0.3   | 6.00                    | 3.25       | 0.040                               |
| 6004                 | 20                   | 42  | 12 | 0.6  | 0.5   | 9.38                    | 5.03       | 0.068                               |
| 60/22                | 22                   | 44  | 12 | 0.6  | 0.5   | 9.38                    | 5.03       | 0.074                               |
| 6005                 | 25                   | 47  | 12 | 0.6  | 0.5   | 10.06                   | 5.85       | 0.079                               |
| 60/28                | 28                   | 52  | 12 | 0.6  | 0.5   | 12.50                   | 7.40       | 0.098                               |
| 6006                 | 30                   | 55  | 13 | 1    | 0.5   | 13.23                   | 8.30       | 0.113                               |
| 60/32                | 32                   | 58  | 13 | 1    | 0.5   | 15.10                   | 9.15       | 0.129                               |
| 6007                 | 35                   | 62  | 14 | 1    | 0.5   | 16.21                   | 10.42      | 0.149                               |
| 6008                 | 40                   | 68  | 15 | 1    | 0.5   | 17.03                   | 11.70      | 0.185                               |
| 6009                 | 45                   | 75  | 16 | 1    | 0.5   | 21.09                   | 14.77      | 0.231                               |
| 6010                 | 50                   | 80  | 16 | 1    | 0.5   | 22.02                   | 16.25      | 0.250                               |
| 6011                 | 55                   | 90  | 18 | 1.1  | 0.5   | 30.26                   | 21.93      | 0.362                               |
| 6012                 | 60                   | 95  | 18 | 1.1  | 0.5   | 31.66                   | 24.22      | 0.385                               |
| 6013                 | 65                   | 100 | 18 | 1.1  | 0.5   | 32.06                   | 24.89      | 0.408                               |
| 6014                 | 70                   | 110 | 20 | 1.1  | 0.5   | 38.59                   | 30.43      | 0.573                               |
| 6015                 | 75                   | 115 | 20 | 1.1  | 0.5   | 40.20                   | 33.20      | 0.603                               |
| 6016                 | 80                   | 125 | 22 | 1.1  | 0.5   | 47.50                   | 39.80      | 0.821                               |
| 6017                 | 85                   | 130 | 22 | 1.1  | 0.5   | 50.80                   | 42.80      | 0.848                               |
| 6018                 | 90                   | 140 | 24 | 1.5  | 0.5   | 58.00                   | 49.80      | 1.103                               |
| 6019                 | 95                   | 145 | 24 | 1.5  | 0.5   | 57.80                   | 50.00      | 1.156                               |
| 6020                 | 100                  | 150 | 24 | 1.5  | 0.5   | 64.50                   | 56.20      | 1.174                               |



| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | rlmin | Dynamic Cr              | Static Cor |                                     |
| 61800                | 10                   | 19  | 5  | 0.3  | 0.3   | 1.40                    | 0.75       | 0.005                               |
| 61801                | 12                   | 21  | 5  | 0.3  | 0.3   | 1.40                    | 0.90       | 0.007                               |
| 61802                | 15                   | 24  | 5  | 0.3  | 0.3   | 1.92                    | 1.18       | 0.008                               |
| 61803                | 17                   | 26  | 5  | 0.3  | 0.3   | 2.18                    | 1.28       | 0.008                               |
| 61804                | 20                   | 32  | 7  | 0.3  | 0.3   | 3.45                    | 2.25       | 0.020                               |
| 61805                | 25                   | 37  | 7  | 0.3  | 0.3   | 3.70                    | 2.65       | 0.022                               |
| 61806                | 30                   | 42  | 7  | 0.3  | 0.3   | 4.00                    | 3.15       | 0.026                               |
| 61807                | 35                   | 47  | 7  | 0.3  | 0.3   | 4.12                    | 3.45       | 0.030                               |
| 61808                | 40                   | 52  | 7  | 0.3  | 0.3   | 4.40                    | 3.25       | 0.034                               |
| 61809                | 45                   | 58  | 7  | 0.3  | 0.3   | 4.65                    | 4.32       | 0.040                               |
| 61810                | 50                   | 65  | 7  | 0.3  | 0.3   | 5.10                    | 4.68       | 0.057                               |
| 61811                | 55                   | 72  | 9  | 0.3  | 0.3   | 6.72                    | 6.50       | 0.083                               |
| 61812                | 60                   | 78  | 10 | 0.3  | 0.3   | 9.15                    | 8.75       | 0.11                                |
| 61813                | 65                   | 85  | 10 | 0.6  | 0.5   | 10.0                    | 9.32       | 0.13                                |
| 61814                | 70                   | 90  | 10 | 0.6  | 0.5   | 10.5                    | 10.8       | 0.114                               |
| 61815                | 75                   | 95  | 10 | 0.6  | 0.5   | 12.5                    | 12.8       | 0.150                               |
| 61816                | 80                   | 100 | 10 | 0.6  | 0.5   | 12.7                    | 13.2       | 0.155                               |
| 61817                | 85                   | 110 | 13 | 1.0  | 0.5   | 19.2                    | 19.8       | 0.205                               |
| 61818                | 90                   | 115 | 13 | 1.0  | 0.5   | 19.5                    | 20.5       | 0.258                               |
| 61819                | 95                   | 120 | 13 | 1.0  | 0.5   | 19.8                    | 21.3       | 0.27                                |
| 61820                | 100                  | 125 | 13 | 1.0  | 0.5   | 20.1                    | 22         | 0.283                               |



| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | rlmin | Dynamic Cr              | Static Cor |                                     |
| 61900                | 10                   | 22  | 6  | 0.3  | 0.3   | 3.30                    | 1.40       | 0.011                               |
| 61901                | 12                   | 24  | 6  | 0.3  | 0.3   | 3.38                    | 1.48       | 0.013                               |
| 61902                | 15                   | 28  | 7  | 0.3  | 0.3   | 4.00                    | 2.02       | 0.018                               |
| 61903                | 17                   | 30  | 7  | 0.3  | 0.3   | 4.30                    | 2.32       | 0.020                               |
| 61904                | 20                   | 37  | 9  | 0.3  | 0.3   | 6.55                    | 3.60       | 0.040                               |
| 61905                | 25                   | 42  | 9  | 0.3  | 0.3   | 7.36                    | 4.55       | 0.050                               |
| 61906                | 30                   | 47  | 9  | 0.3  | 0.3   | 7.55                    | 5.08       | 0.060                               |
| 61907                | 35                   | 55  | 10 | 0.6  | 0.5   | 9.55                    | 6.85       | 0.086                               |
| 61908                | 40                   | 62  | 12 | 0.6  | 0.5   | 12.0                    | 8.98       | 0.110                               |
| 61909                | 45                   | 68  | 12 | 0.6  | 0.5   | 12.8                    | 9.72       | 0.140                               |
| 61910                | 50                   | 72  | 12 | 0.6  | 0.5   | 12.8                    | 11.2       | 0.140                               |
| 61911                | 55                   | 80  | 13 | 1    | 0.5   | 13                      | 13.5       | 0.190                               |
| 61912                | 60                   | 85  | 13 | 1    | 0.5   | 14                      | 14.2       | 0.230                               |
| 61913                | 65                   | 90  | 13 | 1    | 0.5   | 14.5                    | 17.5       | 0.220                               |
| 61914                | 70                   | 100 | 16 | 1    | 0.5   | 16.5                    | 17.2       | 0.350                               |
| 61915                | 75                   | 105 | 16 | 1    | 0.5   | 18.0                    | 17.2       | 0.420                               |
| 61916                | 80                   | 110 | 16 | 1    | 0.5   | 18.8                    | 25.2       | 0.440                               |
| 61917                | 85                   | 120 | 18 | 1.1  | 0.5   | 28.2                    | 26.8       | 0.620                               |
| 61918                | 90                   | 125 | 18 | 1.1  | 0.5   | 32.8                    | 31.5       | 0.650                               |
| 61919                | 95                   | 130 | 18 | 1.1  | 0.5   | 38                      | 32.5       | 0.670                               |
| 61920                | 100                  | 140 | 20 | 1.1  | 0.5   | 41.2                    | 34.8       | 0.920                               |



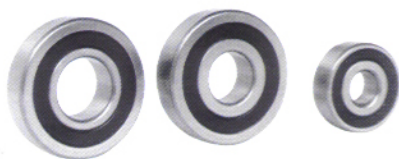
| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | rlmin | Dynamic Cr              | Static Cor |                                     |
| 6300                 | 10                   | 35  | 11 | 0.6  | 0.5   | 7.65                    | 3.47       | 0.0532                              |
| 6301                 | 12                   | 37  | 12 | 1    | 0.5   | 9.72                    | 5.09       | 0.0574                              |
| 6302                 | 15                   | 42  | 13 | 1    | 0.5   | 11.44                   | 5.43       | 0.0804                              |
| 6303                 | 17                   | 47  | 14 | 1    | 0.5   | 13.58                   | 6.58       | 0.1096                              |
| 6304                 | 20                   | 52  | 15 | 1.1  | 0.5   | 15.94                   | 7.88       | 0.1417                              |
| 63/22                | 22                   | 56  | 16 | 1.1  | 0.5   | 15.94                   | 7.88       | 0.1844                              |
| 6305                 | 25                   | 62  | 17 | 1.1  | 0.5   | 22.38                   | 11.49      | 0.2193                              |
| 63/28                | 28                   | 68  | 18 | 1.1  | 0.5   | 26.70                   | 14.00      | 0.2840                              |
| 6306                 | 30                   | 72  | 19 | 1.1  | 0.5   | 27.00                   | 15.19      | 0.3498                              |
| 63/32                | 32                   | 75  | 20 | 1.1  | 0.5   | 29.80                   | 16.90      | 0.3820                              |
| 6307                 | 35                   | 80  | 21 | 1.5  | 0.5   | 33.36                   | 19.21      | 0.4542                              |
| 6308                 | 40                   | 90  | 23 | 1.5  | 0.5   | 40.75                   | 24.01      | 0.6394                              |
| 6309                 | 45                   | 100 | 25 | 1.5  | 0.5   | 52.86                   | 21.83      | 0.8363                              |
| 6310                 | 50                   | 110 | 27 | 2    | 0.5   | 61.86                   | 37.94      | 1.0822                              |
| 6311                 | 55                   | 120 | 29 | 2    | 0.5   | 71.57                   | 44.76      | 1.3676                              |
| 6312                 | 60                   | 130 | 31 | 2.1  | 0.5   | 81.75                   | 51.85      | 1.7095                              |
| 6313                 | 65                   | 140 | 33 | 2.1  | 0.5   | 93.87                   | 60.44      | 2.097                               |
| 6314                 | 70                   | 150 | 35 | 2.1  | 0.5   | 104.13                  | 68.04      | 2.543                               |
| 6315                 | 75                   | 160 | 37 | 2.1  | 0.5   | 112                     | 76.80      | 3.046                               |



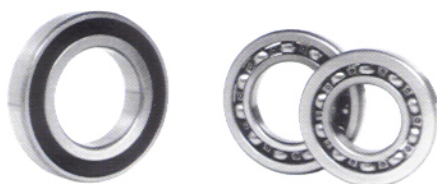
| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | Dynamic Cr              | Static Cor |                                     |
| 16001                | 12                   | 28  | 7  | 0.3  | 5.08                    | 2.38       | 0.019                               |
| 16002                | 15                   | 32  | 8  | 0.3  | 5.60                    | 2.55       | 0.025                               |
| 16003                | 17                   | 35  | 8  | 0.3  | 6.82                    | 3.38       | 0.027                               |
| 16004                | 20                   | 42  | 8  | 0.3  | 7.90                    | 4.45       | 0.050                               |
| 16005                | 25                   | 47  | 8  | 0.3  | 8.42                    | 5.15       | 0.060                               |
| 16006                | 30                   | 55  | 9  | 0.3  | 11.2                    | 6.25       | 0.085                               |
| 16007                | 35                   | 62  | 9  | 0.3  | 11.5                    | 8.80       | 0.100                               |
| 16008                | 40                   | 68  | 9  | 0.3  | 12.5                    | 10.2       | 0.130                               |
| 16009                | 45                   | 75  | 10 | 0.6  | 12.8                    | 10.2       | 0.170                               |
| 16010                | 50                   | 80  | 10 | 0.6  | 16.2                    | 13.2       | 0.180                               |
| 16011                | 55                   | 90  | 11 | 0.6  | 16.2                    | 17.2       | 0.260                               |
| 16012                | 60                   | 95  | 11 | 0.6  | 16.5                    | 15.0       | 0.280                               |
| 16013                | 65                   | 100 | 11 | 0.6  | 17.5                    | 16.0       | 0.300                               |
| 16014                | 70                   | 110 | 13 | 0.6  | 20.2                    | 18.8       | 0.430                               |
| 16015                | 75                   | 115 | 13 | 0.6  | 25.0                    | 23.8       | 0.460                               |
| 16016                | 80                   | 125 | 14 | 0.6  | 25.2                    | 25.2       | 0.600                               |
| 16017                | 85                   | 130 | 14 | 0.6  | 25.8                    | 26.2       | 0.630                               |
| 16018                | 90                   | 140 | 16 | 1    | 33.5                    | 33.5       | 0.850                               |
| 16019                | 95                   | 145 | 16 | 1    | 37.0                    | 36.8       | 0.890                               |
| 16020                | 100                  | 150 | 16 | 1    | 38.2                    | 38.5       | 0.910                               |



| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |    |     |      | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|----|-----|------|-------------------------|------------|-------------------------------------|
|                      | d                    | D  | B   | rmin | Dynamic Cr              | Static Cor |                                     |
| 618/1                | 1                    | 3  | 1   | 0.05 | 0.08                    | 0.02       | 0.00008                             |
| 619/1                | 1                    | 4  | 1.6 | 0.1  | 0.15                    | 0.05       | 0.0001                              |
| 618/1.5              | 1.5                  | 4  | 1.2 | 0.05 | 0.15                    | 0.05       | 0.00009                             |
| 619/1.5              | 1.5                  | 5  | 2   | 0.15 | 0.18                    | 0.05       | 0.0002                              |
| 60/1.5               | 1.5                  | 6  | 2.5 | 0.15 | 0.28                    | 0.08       | 0.0004                              |
| 618/2                | 2                    | 5  | 1.5 | 0.08 | 0.18                    | 0.05       | 0.00015                             |
| 619/2                | 2                    | 6  | 2.3 | 0.15 | 0.28                    | 0.08       | 0.0003                              |
| 618/2.5              | 2.5                  | 6  | 1.8 | 0.08 | 0.20                    | 0.08       | 0.00125                             |
| 619/2.5              | 2.5                  | 7  | 2.5 | 0.15 | 0.30                    | 0.10       | 0.0006                              |
| 618/3                | 3                    | 7  | 2   | 0.1  | 0.30                    | 0.10       | 0.00032                             |
| 619/3                | 3                    | 8  | 3   | 0.15 | 0.45                    | 0.15       | 0.0008                              |
| 623                  | 3                    | 10 | 4   | 0.15 | 0.65                    | 0.22       | 0.002                               |
| 618/4                | 4                    | 9  | 2.5 | 0.1  | 0.50                    | 0.18       | 0.00065                             |
| 628/4                | 4                    | 9  | 3.0 | 0.1  | 0.55                    | 0.18       | 0.0008                              |
| 619/4                | 4                    | 11 | 4   | 0.15 | 0.95                    | 0.35       | 0.002                               |
| 624                  | 4                    | 13 | 5   | 0.2  | 1.15                    | 0.40       | 0.003                               |
| 634                  | 4                    | 16 | 5   | 0.3  | 1.88                    | 0.68       | 0.005                               |
| 618/5                | 5                    | 11 | 3   | 0.15 | 0.78                    | 0.32       | 0.0012                              |
| 628/5                | 5                    | 11 | 3.5 | 0.15 | 0.80                    | 0.32       | 0.0014                              |
| 619/5                | 5                    | 13 | 4   | 0.2  | 1.08                    | 0.42       | 0.0025                              |
| 605                  | 5                    | 14 | 5   | 0.2  | 1.05                    | 0.50       | 0.0045                              |
| 625                  | 5                    | 16 | 5   | 0.3  | 1.88                    | 0.68       | 0.005                               |
| 635                  | 5                    | 19 | 6   | 0.3  | 2.80                    | 1.02       | 0.008                               |
| 618/6                | 6                    | 13 | 3.5 | 0.15 | 1.08                    | 0.45       | 0.0018                              |
| 628/6                | 6                    | 13 | 4   | 0.15 | 1.08                    | 0.42       | 0.0021                              |
| 619/6                | 6                    | 15 | 5   | 0.2  | 1.48                    | 0.60       | 0.0045                              |
| 606                  | 6                    | 17 | 6   | 0.3  | 1.95                    | 0.72       | 0.006                               |
| 626                  | 6                    | 19 | 6   | 0.3  | 2.80                    | 1.05       | 0.008                               |
| 618/7                | 7                    | 14 | 3.5 | 0.15 | 1.18                    | 0.50       | 0.0021                              |
| 628/7                | 7                    | 14 | 4.0 | 0.15 | 1.18                    | 0.50       | 0.0024                              |
| 619/7                | 7                    | 17 | 5   | 0.3  | 2.02                    | 0.80       | 0.0057                              |
| 607                  | 7                    | 19 | 6   | 0.3  | 2.88                    | 1.08       | 0.007                               |
| 627                  | 7                    | 22 | 7   | 0.3  | 3.28                    | 1.35       | 0.014                               |
| 618/8                | 8                    | 16 | 4   | 0.2  | 1.35                    | 0.65       | 0.0031                              |
| 628/8                | 8                    | 16 | 5   | 0.2  | 1.32                    | 0.65       | 0.004                               |
| 619/8                | 8                    | 19 | 6   | 0.3  | 2.25                    | 0.92       | 0.0085                              |
| 608                  | 8                    | 22 | 7   | 0.3  | 3.38                    | 1.38       | 0.015                               |
| 628                  | 8                    | 24 | 8   | 0.3  | 3.35                    | 1.40       | 0.016                               |
| 618/9                | 9                    | 17 | 4   | 0.2  | 1.60                    | 0.72       | 0.0033                              |
| 628/9                | 9                    | 17 | 5   | 0.2  | 1.60                    | 0.72       | 0.0042                              |
| 619/9                | 9                    | 20 | 6   | 0.3  | 2.48                    | 1.08       | 0.0092                              |
| 609                  | 9                    | 24 | 7   | 0.3  | 3.35                    | 1.40       | 0.016                               |
| 629                  | 9                    | 26 | 8   | 0.3  | 4.55                    | 1.95       | 0.019                               |
| 62800                | 10                   | 19 | 6   | 0.3  | 1.60                    | 0.75       | 0.0063                              |
| 62900                | 10                   | 22 | 8   | 0.3  | 2.70                    | 1.28       | 0.015                               |



| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |        |        |      | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|--------|--------|------|-------------------------|------------|-------------------------------------|
|                      | d                    | D      | B      | rmin | Dynamic Cr              | Static Cor |                                     |
| 1614                 | 9.525                | 25.575 | 9.525  | 0.3  | 5.11                    | 2.39       | 0.0286                              |
| 1615                 | 11.112               | 28.575 | 9.525  | 0.3  | 5.11                    | 2.39       | 0.0267                              |
| 1616                 | 12.700               | 28.575 | 9.525  | 0.3  | 5.11                    | 2.39       | 0.0247                              |
| 1620                 | 11.112               | 34.925 | 11.112 | 0.3  | 7.64                    | 3.72       | 0.0520                              |
| 1621                 | 12.700               | 34.925 | 11.112 | 0.3  | 7.64                    | 3.72       | 0.0490                              |
| 1622                 | 14.288               | 34.925 | 11.112 | 0.3  | 7.64                    | 3.72       | 0.0464                              |
| 1623                 | 15.875               | 34.925 | 11.112 | 0.3  | 7.64                    | 3.72       | 0.0432                              |
| 1628                 | 15.875               | 41.275 | 12.700 | 0.6  | 9.57                    | 4.79       | 0.0788                              |
| 1630                 | 19.050               | 41.275 | 12.700 | 0.6  | 9.38                    | 5.03       | 0.0779                              |
| 1633                 | 15.875               | 44.450 | 12.700 | 0.6  | 9.38                    | 5.03       | 0.100                               |
| 1635                 | 19.050               | 44.450 | 12.700 | 0.6  | 9.38                    | 5.03       | 0.0914                              |
| 1638                 | 19.050               | 50.800 | 14.288 | 0.6  | 12.84                   | 6.65       | 0.1421                              |
| 1639                 | 20.638               | 50.800 | 14.288 | 0.6  | 12.84                   | 6.65       | 0.1380                              |
| 1640                 | 22.225               | 50.800 | 14.288 | 0.6  | 12.84                   | 6.65       | 0.1306                              |
| 1641                 | 25.400               | 50.800 | 14.288 | 0.6  | 14.02                   | 7.88       | 0.1090                              |
| 1652                 | 28.575               | 63.500 | 15.875 | 1    | 16.21                   | 10.42      | 0.2238                              |
| 1654                 | 31.750               | 63.500 | 15.875 | 1    | 16.21                   | 10.42      | 0.2056                              |
| 1657                 | 31.750               | 65.088 | 17.462 | 1    | 16.21                   | 10.42      | 0.2386                              |
| 1658                 | 33.338               | 65.088 | 17.462 | 1    | 16.21                   | 10.42      | 0.2359                              |



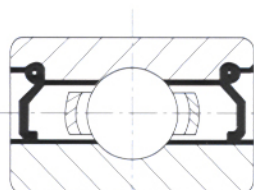
| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |        |        |        |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|--------|--------|--------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D      | B      | rmin   | rlmin | Dynamic Cr              | Static Cor |                                     |
| R6                   | 9.525                | 22.225 | 5.558  | 7.142  | 0.3   | 2.57                    | 1.36       | 0.0096                              |
| R8                   | 12.700               | 28.575 | 6.35   | 7.938  | 0.3   | 5.11                    | 2.39       | 0.0169                              |
| R10                  | 15.875               | 34.925 | 7.14   | 8.730  | 0.6   | 6.00                    | 3.25       | 0.0292                              |
| R12                  | 19.050               | 41.275 | 7.938  | 11.112 | 0.6   | 9.38                    | 5.03       | 0.0447                              |
| R14                  | 22.225               | 47.625 | 9.525  | 12.700 | 0.6   | 10.06                   | 5.85       | 0.0748                              |
| R16                  | 25.400               | 50.800 | 9.525  | 12.700 | 0.6   | 10.06                   | 5.85       | 0.0808                              |
| R18                  | 28.575               | 53.975 | 9.525  | 12.700 | 0.6   | 13.23                   | 9.30       | 0.0847                              |
| R20                  | 31.750               | 57.150 | 9.525  | 12.700 | 1     | 13.23                   | 8.30       | 0.0903                              |
| R22                  | 34.925               | 63.500 | 11.112 | 14.288 | 1     | 16.21                   | 10.42      | 0.1332                              |
| R24                  | 38.100               | 66.675 | 11.112 | 14.288 | 1     | 17.03                   | 11.70      | 0.1384                              |



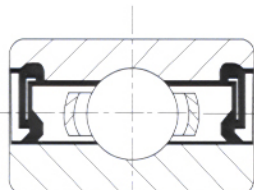
| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | rlmin | Dynamic Cr              | Static Cor |                                     |
| 6200                 | 10                   | 30  | 9  | 0.6  | --    | 5.11                    | 2.39       | 0.032                               |
| 6201                 | 12                   | 32  | 10 | 0.6  | --    | 6.82                    | 3.06       | 0.035                               |
| 6202                 | 15                   | 35  | 11 | 0.6  | 0.3   | 7.64                    | 3.72       | 0.045                               |
| 6203                 | 17                   | 40  | 12 | 0.6  | 0.3   | 9.57                    | 4.79       | 0.064                               |
| 6204                 | 20                   | 47  | 14 | 1    | 0.5   | 12.84                   | 6.65       | 0.103                               |
| 62/22                | 22                   | 50  | 14 | 1    | 0.5   | 12.84                   | 6.65       | 0.121                               |
| 6205                 | 25                   | 52  | 15 | 1    | 0.5   | 14.02                   | 7.88       | 0.127                               |
| 62/28                | 28                   | 58  | 16 | 1    | 0.5   | 17.90                   | 9.75       | 0.171                               |
| 6206                 | 30                   | 62  | 16 | 1    | 0.5   | 19.46                   | 11.31      | 0.202                               |
| 62/32                | 32                   |     | 17 | 1    | 0.5   | 19.46                   | 11.31      | 0.240                               |
| 6207                 | 35                   | 72  | 17 | 1.1  | 0.5   | 25.67                   | 15.30      | 0.287                               |
| 6208                 | 40                   | 80  | 18 | 1.1  | 0.5   | 29.52                   | 18.14      | 0.367                               |
| 6209                 | 45                   | 85  | 19 | 1.1  | 0.5   | 31.67                   | 20.68      | 0.416                               |
| 6210                 | 50                   | 90  | 20 | 1.1  | 0.5   | 35.07                   | 23.18      | 0.462                               |
| 6211                 | 55                   | 100 | 21 | 1.5  | 0.5   | 43.38                   | 29.22      | 0.602                               |
| 6212                 | 60                   | 110 | 22 | 1.5  | 0.5   | 47.76                   | 32.93      | 0.789                               |
| 6213                 | 65                   | 120 | 23 | 1.5  | 0.5   | 57.21                   | 40.00      | 0.990                               |
| 6214                 | 70                   | 125 | 24 | 1.5  | 0.5   | 60.83                   | 45.03      | 1.084                               |
| 6215                 | 75                   | 130 | 25 | 1.5  | 0.5   | 66.00                   | 49.50      | 1.171                               |
| 6216                 | 80                   | 140 | 26 | 2    | 0.5   | 71.50                   | 54.20      | 1.448                               |
| 6217                 | 85                   | 150 | 28 | 2    | 0.5   | 83.20                   | 63.80      | 1.803                               |
| 6218                 | 90                   | 160 | 30 | 2    | 0.5   | 95.80                   | 71.50      | 2.172                               |



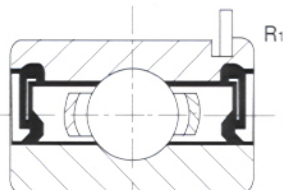
| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |    |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|----|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B  | rmin | rlmin | Dynamic Cr              | Static Cor |                                     |
| 6403                 | 17                   | 62  | 17 | 1.1  | 0.5   | 22.5                    | 10.8       | 0.268                               |
| 6404                 | 20                   | 72  | 19 | 1.1  | 0.5   | 31.0                    | 15.2       | 0.400                               |
| 6405                 | 25                   | 80  | 21 | 1.5  | 0.5   | 38.2                    | 19.2       | 0.529                               |
| 6406                 | 30                   | 90  | 23 | 1.5  | 0.5   | 47.5                    | 24.5       | 0.710                               |
| 6407                 | 35                   | 100 | 25 | 1.5  | 0.5   | 56.8                    | 29.5       | 0.926                               |
| 6408                 | 40                   | 110 | 27 | 2    | 0.5   | 65.5                    | 37.5       | 1.221                               |
| 6409                 | 45                   | 120 | 29 | 2    | 0.5   | 77.5                    | 45.5       | 1.521                               |
| 6410                 | 50                   | 130 | 31 | 2.1  | 0.5   | 92.2                    | 55.2       | 1.855                               |
| 6411                 | 55                   | 140 | 33 | 2.1  | 0.5   | 100                     | 62.5       | 2.316                               |
| 6412                 | 60                   | 150 | 35 | 2.1  | 0.5   | 108                     | 70.0       | 2.811                               |



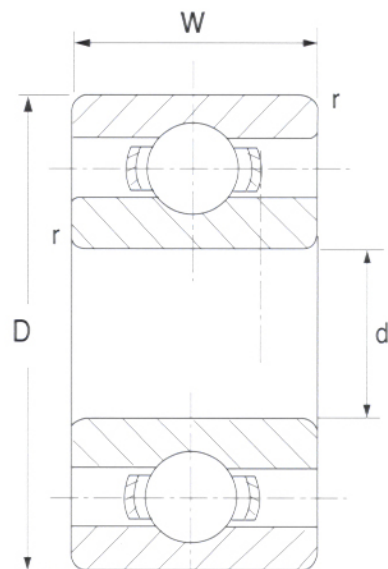
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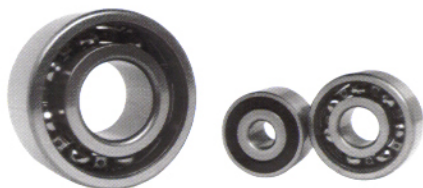
-2RS



-2RSNR



OPEN



| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |     |      |      |       | 额定负荷(KN)<br>Load Rating |            | 开式<br>Open Type<br>重量(Kg)<br>Weight |
|----------------------|----------------------|-----|------|------|-------|-------------------------|------------|-------------------------------------|
|                      | d                    | D   | B    | rmin | rlmin | Dynamic Cr              | Static Cor |                                     |
| W200                 | 10                   | 30  | 14.3 | 1.0  | 0.5   | 5.11                    | 2.39       | 0.045                               |
| W201                 | 12                   | 32  | 15.9 | 1.0  | 0.5   | 6.82                    | 3.06       | 0.054                               |
| W202                 | 15                   | 35  | 15.9 | 1.0  | 0.5   | 7.64                    | 3.72       | 0.068                               |
| W203                 | 17                   | 40  | 17.5 | 1.0  | 0.5   | 9.57                    | 4.79       | 0.100                               |
| W204                 | 20                   | 47  | 20.6 | 1.5  | 0.5   | 12.84                   | 6.65       | 0.150                               |
| W205                 | 25                   | 52  | 20.6 | 1.5  | 0.5   | 14.02                   | 7.88       | 0.177                               |
| W206                 | 30                   | 62  | 23.8 | 1.5  | 0.5   | 19.46                   | 11.31      | 0.282                               |
| W207                 | 35                   | 72  | 27.0 | 2.0  | 0.5   | 25.67                   | 15.30      | 0.450                               |
| W208                 | 40                   | 80  | 30.2 | 2.0  | 0.5   | 29.52                   | 18.14      | 0.627                               |
| W209                 | 45                   | 85  | 30.2 | 2.0  | 0.5   | 31.67                   | 20.68      | 0.668                               |
| W210                 | 50                   | 90  | 30.2 | 2.0  | 0.5   | 35.07                   | 23.18      | 0.767                               |
| W302                 | 15                   | 42  | 19.0 | 1.5  | 0.5   | 11.44                   | 5.43       | 0.154                               |
| W303                 | 17                   | 47  | 22.2 | 1.5  | 0.5   | 13.58                   | 6.58       | 0.191                               |
| W304                 | 20                   | 52  | 22.2 | 2.0  | 0.5   | 15.94                   | 7.88       | 0.209                               |
| W305                 | 25                   | 62  | 25.4 | 2.0  | 0.5   | 22.38                   | 11.49      | 0.350                               |
| W306                 | 30                   | 72  | 30.2 | 2.5  | 0.5   | 27.00                   | 15.19      | 0.549                               |
| W307                 | 35                   | 80  | 34.9 | 2.5  | 0.5   | 33.36                   | 19.21      | 0.708                               |
| W308                 | 40                   | 90  | 36.5 | 2.5  | 0.5   | 40.75                   | 24.01      | 1.008                               |
| W309                 | 45                   | 100 | 39.7 | 2.5  | 0.5   | 52.86                   | 31.83      | 1.308                               |
| W310                 | 50                   | 110 | 44.4 | 3.0  | 0.5   | 61.86                   | 37.94      | 1.703                               |

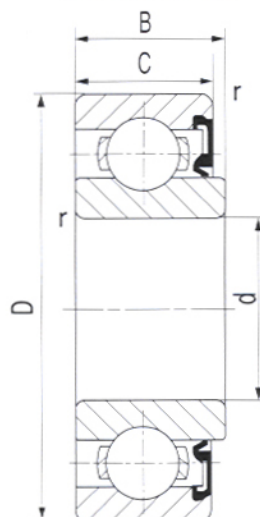


| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |        |       |
|----------------------|----------------------|--------|-------|
|                      | d                    | D      | B     |
| RLS 4                | 12.7                 | 33.34  | 9.525 |
| RLS 5                | 15.875               | 39.69  | 11.11 |
| RLS 6                | 19.05                | 47.63  | 14.29 |
| RLS 7                | 22.225               | 50.8   | 14.23 |
| RLS 8                | 25.4                 | 57.15  | 15.88 |
| RLS 9                | 28.575               | 63.5   | 15.88 |
| RLS 10               | 31.75                | 69.85  | 17.46 |
| RLS 11               | 34.925               | 76.2   | 17.46 |
| RLS 12               | 38.1                 | 82.55  | 19.05 |
| RLS 13               | 41.275               | 88.9   | 19.05 |
| RLS 14               | 44.45                | 95.25  | 20.64 |
| RLS 15               | 47.625               | 101.6  | 20.64 |
| RLS 16               | 50.8                 | 101.6  | 20.64 |
| RLS 18               | 57.15                | 114.3  | 22.23 |
| RLS 20               | 63.5                 | 127    | 23.81 |
| RLS 22               | 69.85                | 133.4  | 23.81 |
| RLS 24               | 76.2                 | 146.05 | 26.99 |
| RLS 26               | 82.55                | 152.4  | 26.99 |

| 轴承型号<br>Bearing Type | 尺寸(mm)<br>Dimensions |       |       |
|----------------------|----------------------|-------|-------|
|                      | d                    | D     | B     |
| RMS 4                | 12.7                 | 41.28 | 15.88 |
| RMS 5                | 15.875               | 46.04 | 15.88 |
| RMS 6                | 19.05                | 50.8  | 17.46 |
| RMS 7                | 22.225               | 57.15 | 17.46 |
| RMS 8                | 25.4                 | 63.5  | 19.05 |
| RMS 9                | 28.575               | 71.44 | 20.64 |
| RMS 10               | 31.75                | 79.37 | 22.23 |
| RMS 11               | 34.925               | 88.9  | 22.23 |
| RMS 12               | 38.1                 | 95.25 | 23.81 |
| RMS 13               | 41.275               | 101.6 | 23.81 |
| RMS 14               | 44.45                | 108   | 26.99 |
| RMS 15               | 47.625               | 114.3 | 26.99 |
| RMS 16               | 50.8                 | 114.3 | 26.99 |
| RMS 18               | 57.15                | 127   | 31.75 |
| RMS 20               | 63.5                 | 139.7 | 31.75 |
| RMS 22               | 69.85                | 158.8 | 34.93 |
| RMS 24               | 76.2                 | 177.8 | 39.68 |
| RMS 26               | 82.55                | 190.5 | 39.68 |



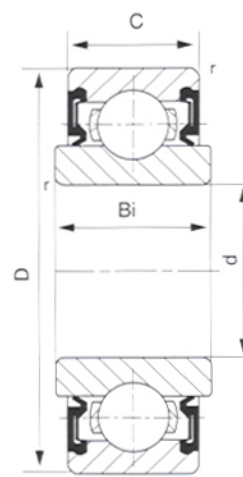
单面密封圈  
Single Sealed 8000 Series



一面防尘盖，一面密封圈  
Shielded and Sealed 8700 Series

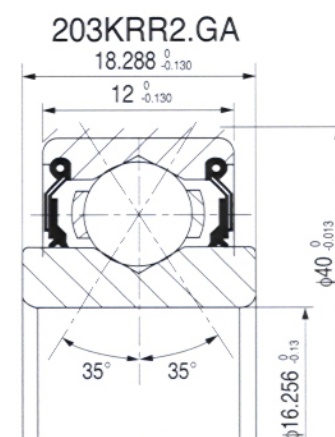
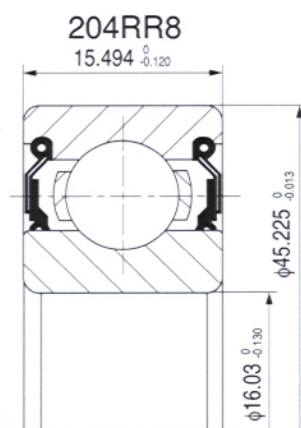
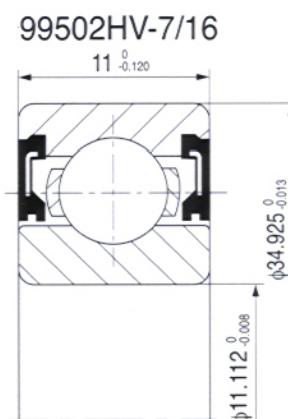
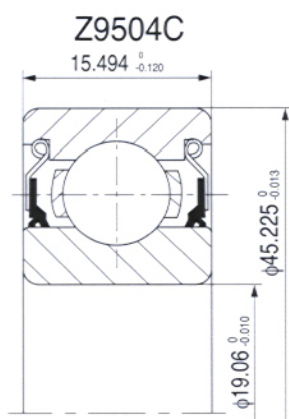
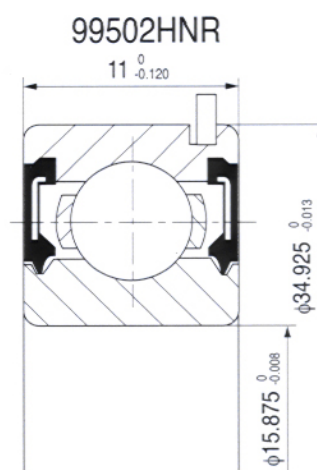
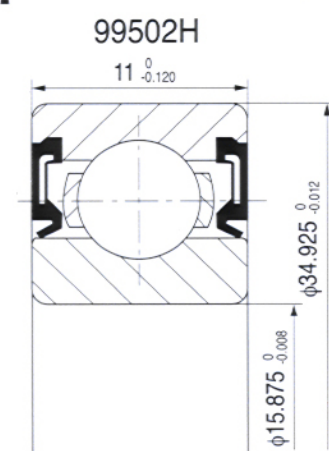
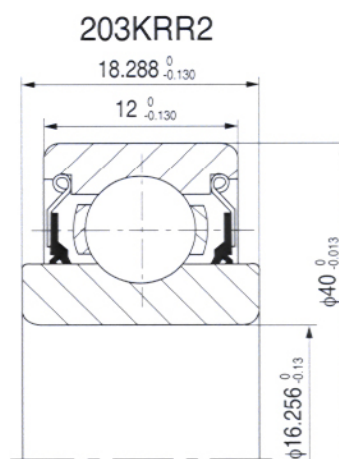
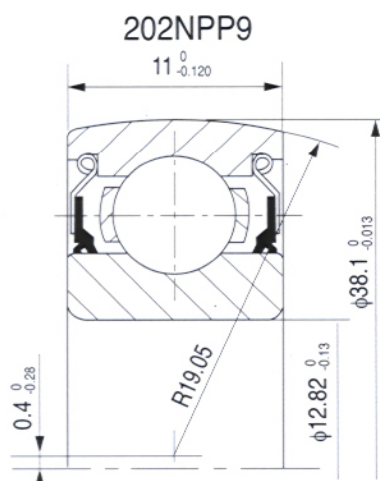


双面密封圈  
Double Sealed 88000 Series



| 轴承型号<br>Bearing Type |      |       | 尺寸(mm)<br>Dimensions |   |   |   |    |      | 额定负荷(KN)<br>Load Rating |            | 重量(Kg)<br>Weight |      |       |
|----------------------|------|-------|----------------------|---|---|---|----|------|-------------------------|------------|------------------|------|-------|
| 8000                 | 8700 | 88000 | d                    | D | B | C | Bi | rmin | Dynamic Cr              | Static Cor | 8000             | 8700 | 88000 |

|      |       |       |    |     |        |    |        |     |       |       |       |       |       |
|------|-------|-------|----|-----|--------|----|--------|-----|-------|-------|-------|-------|-------|
| 8500 | 87500 | 88500 | 10 | 30  | 12.7   | 9  | 16.041 | 0.6 | 5.11  | 2.39  | 0.034 | 0.035 | 0.041 |
| 8011 | 87011 | 88011 | 11 | 32  | 12.7   | 10 | 15.400 | 0.6 | 6.82  | 3.06  | 0.045 | 0.046 | 0.047 |
| 8501 | 87501 | 88501 | 12 | 32  | 12.7   | 10 | 15.400 | 0.6 | 6.82  | 3.06  | 0.043 | 0.044 | 0.045 |
| 8013 | 87013 | 88013 | 13 | 32  | 12.7   | 10 | 15.400 | 0.6 | 6.82  | 3.06  | 0.041 | 0.042 | 0.043 |
| 8014 | 87014 | 88014 | 14 | 35  | 12.7   | 11 | 14.399 | 0.6 | 7.64  | 3.72  | 0.050 | 0.052 | 0.057 |
| 8502 | 87502 | 88502 | 15 | 35  | 12.7   | 11 | 14.399 | 0.6 | 7.64  | 3.72  | 0.048 | 0.049 | 0.054 |
| 8016 | 87016 | 88016 | 16 | 35  | 12.7   | 11 | 14.399 | 0.6 | 7.64  | 3.72  | 0.046 | 0.048 | 0.052 |
| 8602 | 87602 | 88602 | 15 | 42  | 15     | 13 | 17     | 1.0 | 11.44 | 5.43  | 0.085 | 0.088 | 0.095 |
| 8503 | 87503 | 88503 | 17 | 40  | 14.288 | 12 | 16.601 | 0.6 | 9.57  | 4.79  | 0.068 | 0.070 | 0.075 |
| 8603 | 87603 | 88603 | 17 | 47  | 16     | 14 | 18     | 1.0 | 13.58 | 6.58  | 0.115 | 0.117 | 0.127 |
| 8504 | 87504 | 88504 | 20 | 47  | 15.875 | 14 | 17.750 | 1.0 | 12.84 | 6.65  | 0.105 | 0.108 | 0.118 |
| 8604 | 87604 | 88604 | 20 | 52  | 19     | 15 | 23     | 1.0 | 15.94 | 7.88  | 0.157 | 0.160 | 0.181 |
| 8505 | 87505 | 88505 | 25 | 52  | 15.875 | 15 | 16.749 | 1.0 | 14.02 | 7.88  | 0.130 | 0.133 | 0.138 |
| 8605 | 87605 | 88605 | 25 | 62  | 21     | 17 | 25     | 1.0 | 22.38 | 11.49 | 0.268 | 0.272 | 0.295 |
| 8026 | 87026 | 88026 | 26 | 52  | 15.875 | 15 | 16.749 | 1.0 | 14.02 | 7.88  | 0.126 | 0.128 | 0.134 |
| 8506 | 87506 | 88506 | 30 | 62  | 20     | 16 | 24     | 1.0 | 19.46 | 11.31 | 0.225 | 0.230 | 0.259 |
| 8606 | 87606 | 88606 | 30 | 72  | 21     | 19 | 27     | 1.0 | 27.00 | 15.19 | 0.391 | 0.404 | 0.440 |
| 8507 | 87507 | 88507 | 35 | 72  | 21     | 17 | 25     | 1.0 | 25.67 | 15.30 | 0.316 | 0.321 | 0.347 |
| 8607 | 87607 | 88607 | 35 | 80  | 25     | 21 | 29     | 1.5 | 33.36 | 19.21 | 0.499 | 0.509 | 0.545 |
| 8508 | 87508 | 88508 | 40 | 80  | 24     | 21 | 27     | 1.0 | 29.52 | 18.14 | 0.468 | 0.486 | 0.536 |
| 8608 | 87608 | 88608 | 40 | 90  | 27     | 23 | 31     | 1.5 | 40.75 | 24.01 | 0.695 | 0.708 | 0.749 |
| 8509 | 87509 | 88509 | 45 | 85  | 24     | 21 | 27     | 1.0 | 31.67 | 20.68 | 0.540 | 0.545 | 0.554 |
| 8609 | 87609 | 88609 | 45 | 100 | 30     | 25 | 35     | 1.5 | 52.86 | 31.83 | 0.890 | 0.913 | 0.994 |
| 8510 | 87510 | 88510 | 50 | 90  | 26     | 22 | 30     | 1.0 | 35.07 | 23.18 | 0.577 | 0.590 | 0.636 |
| 8511 | 87511 | 88511 | 55 | 100 | 27     | 23 | 31     | 1.5 | 43.38 | 29.22 | 0.727 | 0.745 | 0.808 |



## GB/T307.1-94

### ABEC 1 等级公差内圈

#### Inner Ring of Tolerance Class ABEC 1

μm

| $d$<br>mm         |       | $\Delta_{dmp}$ |     | $V_{dp}^{2)}$   |     |       | $V_{dmp}$ | $K_{ia}$ | $\Delta_{Bs}$ |      |                  | $V_{Bs}$ |
|-------------------|-------|----------------|-----|-----------------|-----|-------|-----------|----------|---------------|------|------------------|----------|
|                   |       |                |     | Diameter Series |     |       |           |          | 全部            | 正常   | 修正 <sup>3)</sup> |          |
|                   |       |                |     | 9               | 0,1 | 2,3,4 |           |          |               |      |                  |          |
| over              | incl. | high           | low | max.            |     |       | max.      | max.     | high          | low  |                  | max.     |
| 0.6 <sup>1)</sup> | 2.5   | 0              | -8  | 10              | 8   | 6     | 6         | 10       | 0             | -40  | -                | 12       |
| 2.5               | 10    | 0              | -8  | 10              | 8   | 6     | 6         | 10       | 0             | -120 | -250             | 15       |
| 10                | 18    | 0              | -8  | 10              | 8   | 6     | 6         | 10       | 0             | -120 | -250             | 20       |
| 18                | 30    | 0              | -10 | 13              | 10  | 8     | 8         | 13       | 0             | -120 | -250             | 20       |
| 30                | 50    | 0              | -12 | 15              | 12  | 9     | 9         | 15       | 0             | -120 | -250             | 20       |

注: 1)包括 0.6 在内。

2)直径系列 7 和 8 无规定值。

3)系指用于成对或成组安装时单个轴承的内圈。

Note: 1)Including 0.6.

2)Diameter series 7 and 8, no regular cost.

3)Indicating the single internal ring of the bearing to be used in pair or group during installation.

### ABEC 1 等级公差外圈

#### Out Ring of Tolerance Class ABEC 1

μm

| $D$<br><br>mm     |       | $\Delta D_{Dmp}$ |     | $V_{Dp}^{2)4)}$ |     |                               |       | $V_{Dmp}^{4)}$ | $K_{ea}$ | $\Delta C_s$                                                                |                | $V_{C_s}$ |
|-------------------|-------|------------------|-----|-----------------|-----|-------------------------------|-------|----------------|----------|-----------------------------------------------------------------------------|----------------|-----------|
|                   |       |                  |     | Open Bearings   |     | Capped Bearings <sup>3)</sup> |       |                |          | $\Delta C_s^{5)}$                                                           | $V_{C_s}^{5)}$ |           |
|                   |       |                  |     | Diameter Series |     |                               |       |                |          |                                                                             |                |           |
|                   |       |                  |     | 9               | 0,1 | 2,3,4                         | 2,3,4 |                |          |                                                                             |                |           |
| over              | incl. | high             | low | max.            |     |                               |       | max.           | max.     | high                                                                        | low            | max.      |
| 2.5 <sup>1)</sup> | 6     | 0                | -8  | 10              | 8   | 6                             | 10    | 6              | 15       | Identical to $\Delta B_s$ and $V_{B_s}$<br>of inner ring of same<br>bearing |                |           |
| 6                 | 18    | 0                | -8  | 10              | 8   | 6                             | 10    | 6              | 15       |                                                                             |                |           |
| 18                | 30    | 0                | -9  | 12              | 9   | 7                             | 12    | 7              | 15       |                                                                             |                |           |
| 30                | 50    | 0                | -11 | 14              | 11  | 8                             | 16    | 8              | 20       |                                                                             |                |           |
| 50                | 80    | 0                | -13 | 16              | 13  | 10                            | 20    | 10             | 25       |                                                                             |                |           |

注: 1)包括 2.5 在内。

2)直径系列 7 和 8 无规定值。

3)直径系列 9、0 和 1 无规定值。

4)适用于内、外止动环安装前或拆卸后。

5)仅适用于沟型球轴承。

Note: 1)Including 2.5.

2)Diameter series 7 and 8, no regular cost.

3)Diameter series 9, 0 and 1, no regular cost.

4)Suitable for inside and outside brake ring before installation or after discharge.

5)Only suitable for groove type ball bearing.

## GB/T307.1-94

### ABEC 3 等级公差内圈

#### Inner Ring of Tolerance Class ABEC 3

μm

| $d$<br>mm         |       | $\Delta_{dmp}$ |     | $V_{dp^{(2)}}$  |     |       | $V_{dmp}$ | $K_{ia}$ | $\Delta_{Bs}$ |      |                  | $V_{Bs}$ |
|-------------------|-------|----------------|-----|-----------------|-----|-------|-----------|----------|---------------|------|------------------|----------|
|                   |       |                |     | Diameter Series |     |       |           |          | 全部            | 正常   | 修正 <sup>3)</sup> |          |
|                   |       |                |     | 9               | 0,1 | 2,3,4 |           |          |               |      |                  |          |
| over              | incl. | high           | low | max.            |     |       | max.      | max.     | high          | low  |                  | max.     |
| 0.6 <sup>1)</sup> | 2.5   | 0              | -7  | 9               | 7   | 5     | 5         | 5        | 0             | -40  | -                | 12       |
| 2.5               | 10    | 0              | -7  | 9               | 7   | 5     | 5         | 6        | 0             | -120 | -250             | 15       |
| 10                | 18    | 0              | -7  | 9               | 7   | 5     | 5         | 7        | 0             | -120 | -250             | 20       |
| 18                | 30    | 0              | -8  | 10              | 8   | 6     | 6         | 8        | 0             | -120 | -250             | 20       |
| 30                | 50    | 0              | -10 | 13              | 10  | 8     | 8         | 10       | 0             | -120 | -250             | 20       |

注: 1)包括 0.6 在内。

2)直径系列 7 和 8 无规定值。

3)系指用于成对或成组安装时单个轴承的内圈。

Note: 1)Including 0.6.

2)Diameter series 7 and 8. no regular cost.

3)Indicating the single internal ring of the bearing to be used in pair or group during installation.

### ABEC 3 等级公差外圈

#### Out Ring of Tolerance Class ABEC 3

μm

| $D$<br><br>mm     |       | $\Delta_{Dmp}$ |     | $V_{Dp^{(2)(4)}}$ |     |                               |           | $V_{Dmp^{(4)}}$ | $K_{ea}$ | $\Delta_{Cs}$                                                               |                | $V_{Cs}$ |
|-------------------|-------|----------------|-----|-------------------|-----|-------------------------------|-----------|-----------------|----------|-----------------------------------------------------------------------------|----------------|----------|
|                   |       |                |     | Open Bearings     |     | Capped Bearings <sup>3)</sup> |           |                 |          | $\Delta_{Cs^{(5)}}$                                                         | $V_{Cs^{(5)}}$ |          |
|                   |       |                |     | Diameter Series   |     |                               |           |                 |          |                                                                             |                |          |
|                   |       |                |     | 9                 | 0,1 | 2,3,4                         | 0,1,2,3,4 |                 |          |                                                                             |                |          |
| over              | incl. | high           | low | max.              |     |                               |           | max.            | max.     | high                                                                        | low            | max.     |
| 2.5 <sup>1)</sup> | 6     | 0              | -7  | 9                 | 7   | 5                             | 9         | 5               | 8        | Identical to $\Delta_{Bs}$ and $V_{Bs}$<br>of inner ring of same<br>bearing |                |          |
| 6                 | 18    | 0              | -7  | 9                 | 7   | 5                             | 9         | 5               | 8        |                                                                             |                |          |
| 18                | 30    | 0              | -8  | 10                | 8   | 6                             | 10        | 6               | 9        |                                                                             |                |          |
| 30                | 50    | 0              | -9  | 11                | 9   | 7                             | 13        | 7               | 10       |                                                                             |                |          |
| 50                | 80    | 0              | -11 | 14                | 11  | 8                             | 16        | 8               | 13       |                                                                             |                |          |

注: 1)包括 2.5 在内。

2)直径系列 7 和 8 无规定值。

3)直径系列 9 无规定值。

4)适用于内、外止动环安装前或拆卸后。

3)仅适用于沟型球轴承。

Note: 1)Including 2.5.

2)Diameter series 7 and 8. no regular cost.

3)Diameter series 9. no regular cost.

4)Suitable for inside and outside brake ring before installation or after discharge.

5)Only suitable for groove type ball bearing.

## GB/T307.1-94

### ABEC 5 等级公差内圈

#### Inner Ring of Tolerance Class ABEC 5

μm

| $d$<br>mm         |       | $\Delta_{dmp}$ |     | $V_{dp^{(2)}}$  |           | $V_{dmp}$ | $K_{ia}$ | $S_d$ | $S_{ia}^{3)}$ | $\Delta_{Bs}$ |      |                  | $V_{Bs}$ |
|-------------------|-------|----------------|-----|-----------------|-----------|-----------|----------|-------|---------------|---------------|------|------------------|----------|
|                   |       |                |     | Diameter Series |           |           |          |       |               | 全部            | 正常   | 修正 <sup>4)</sup> |          |
|                   |       |                |     | 9               | 0.1,2,3,4 |           |          |       |               |               |      |                  |          |
| over              | incl. | high           | low | max.            |           | max.      | max.     | max.  | max.          | high          | low  |                  | max.     |
| 0.6 <sup>1)</sup> | 2.5   | 0              | -5  | 5               | 4         | 3         | 4        | 7     | 7             | 0             | -40  | -250             | 5        |
| 2.5               | 10    | 0              | -5  | 5               | 4         | 3         | 4        | 7     | 7             | 0             | -40  | -250             | 5        |
| 10                | 18    | 0              | -5  | 5               | 4         | 3         | 4        | 7     | 7             | 0             | -80  | -250             | 5        |
| 18                | 30    | 0              | -6  | 6               | 5         | 3         | 4        | 8     | 8             | 0             | -120 | -250             | 5        |
| 30                | 50    | 0              | -8  | 8               | 6         | 4         | 5        | 8     | 8             | 0             | -120 | -250             | 5        |

注: 1)包括 0.6 在内。

2)直径系列 7 和 8 无规定值。

3)仅适用于沟型球轴承。

4)系指用于成对或成组安装时单个轴承的内圈。

Note: 1)Including 0.6.

2)Diameter series 7 and 8, no regular cost.

3)Only suitable for groove type ball bearing.

3)Indicating the single internal ring of the bearing to be used in pair or group during installation.

### ABEC 5 等级公差外圈

#### Out Ring of Tolerance Class ABEC 5

μm

| $D$<br>mm         |       | $\Delta_{Dmp}$ |     | $V_{Dp}^{(2),3)}$ |           | $V_{Dmp}$ | $K_{ea}$ | $SD^{(4)}$ | $SD_1^{(5)}$ | $Sea^{(4)5)}$                                                  | $\Delta_{Cs}$ |     | $VCs$ |
|-------------------|-------|----------------|-----|-------------------|-----------|-----------|----------|------------|--------------|----------------------------------------------------------------|---------------|-----|-------|
|                   |       |                |     | Diameter Series   |           |           |          |            |              |                                                                |               |     |       |
|                   |       |                |     | 9                 | 0.1,2,3,4 |           |          |            |              |                                                                |               |     |       |
| over              | incl. | high           | low | max.              |           | max.      | max.     | max.       | max.         | max.                                                           | high          | low | max.  |
| <sup>1)</sup> 2.5 | 6     | 0              | -5  | 5                 | 4         | 3         | 5        | 8          | 8            | Identical to $\Delta_{Bs}$ of<br>inner ring of same<br>bearing |               |     | 5     |
| 6                 | 18    | 0              | -5  | 5                 | 4         | 3         | 5        | 8          | 8            |                                                                |               |     | 5     |
| 18                | 30    | 0              | -6  | 6                 | 5         | 3         | 6        | 8          | 8            |                                                                |               |     | 5     |
| 30                | 50    | 0              | -7  | 7                 | 5         | 4         | 7        | 8          | 8            |                                                                |               |     | 5     |
| 50                | 80    | 0              | -9  | 9                 | 7         | 5         | 8        | 8          | 10           |                                                                |               |     | 6     |
| 80                | 120   | 0              | -10 | 10                | 8         | 5         | 10       | 9          | 11           |                                                                |               |     | 8     |
| 120               | 150   | 0              | -11 | 11                | 8         | 6         | 11       | 10         | 13           |                                                                |               |     | 8     |

注: 1)包括 2.5 在内。

2)直径系列 7 和 8 无规定值。

3)闭型轴承无规定值。

4)不适用于凸缘外圈轴承。

5)仅适用于沟型球轴承。

Note: 1)Including 2.5.

2)Diameter series 7 and 8, no regular cost.

3)There is no regular cost in bearing of closed type.

4)Unsuitable for the outside flange of the bearing.

5)Only suitable for groove type ball bearing.

## GB/T307.1-94

### ABEC 7 等级公差内圈

#### Inner Ring of Tolerance Class ABEC 7

μm

| $d$<br>mm         |       | $\Delta_{dmp}$ |     | $\Delta_{ds}^{(2)}$ |     | $V_{dp}^{(2)}$  |           | $V_{dmp}$ | $K_{ia}$ | $S_d$ | $S_{ia}^{(4)}$ | $\Delta_{Bs}$ |      |                  | $V_{Bs}$ |
|-------------------|-------|----------------|-----|---------------------|-----|-----------------|-----------|-----------|----------|-------|----------------|---------------|------|------------------|----------|
|                   |       |                |     |                     |     | Diameter Series |           |           |          |       |                | 全部            | 正常   | 修正 <sup>s)</sup> |          |
|                   |       |                |     |                     |     | 9               | 0.1,2,3,4 |           |          |       |                |               |      |                  |          |
| over              | incl. | high           | low | high                | low | max.            |           | max.      | max.     | max.  | max.           | high          | low  |                  | max.     |
| 0.6 <sup>1)</sup> | 2.5   | 0              | -4  | 0                   | -4  | 4               | 3         | 2         | 2.5      | 3     | 3              | 0             | -40  | -250             | -2.5     |
| 2.5               | 10    | 0              | -4  | 0                   | -4  | 4               | 3         | 2         | 2.5      | 3     | 3              | 0             | -40  | -250             | 2.5      |
| 10                | 18    | 0              | -4  | 0                   | -4  | 4               | 3         | 2         | 2.5      | 3     | 3              | 0             | -80  | -250             | 2.5      |
| 18                | 30    | 0              | -5  | 0                   | -5  | 5               | 4         | 2.5       | 3        | 4     | 4              | 0             | -120 | -250             | 2.5      |

- 注: 1)包括 0.6 在内。  
 2)仅适用于直径系列 0、1、2、3、及 4。  
 3)直径系列 7 和 8 无规定值。  
 4)仅适用于沟型球轴承。  
 5)系指用于成对或成组安装时单个轴承的内圈。

- Note: 1)Including 0.6.  
 2)Only suitable for Diameter Series 0, 1, 2, 3 and 4.  
 3)Diameter series 7 and 8, no regular cost.  
 4)Only suitable for groove type ball bearing.  
 5)Indicating the single internal ring of the bearing to be used in pair or group during installation.

### ABEC 7 等级公差外圈

#### Out Ring of Tolerance Class ABEC 7

μm

| $D$<br>mm         |       | $\Delta_{Dmp}$ |     | $\Delta_{Ds^{(2)}}$ |     | $V_{Dp^{(3)(4)}}$ |           | $V_{Dmp}$ | $K_{ea}$ | $S_{D^{(5)}}$<br>$S_{D_1^{(6)}}$ | $S_{ea^{(5)(6)}}$ | $S_{eal^{(6)}}$ | $\Delta_{Cs}$                                                  |     | $V_{Cs}$<br>$V_{Cs^{(6)}}$ |  |
|-------------------|-------|----------------|-----|---------------------|-----|-------------------|-----------|-----------|----------|----------------------------------|-------------------|-----------------|----------------------------------------------------------------|-----|----------------------------|--|
|                   |       |                |     |                     |     | Diameter Series   |           |           |          |                                  |                   |                 | 全部                                                             | 正常  |                            |  |
|                   |       |                |     |                     |     | 9                 | 0.1,2,3,4 |           |          |                                  |                   |                 |                                                                |     |                            |  |
| over              | incl. | high           | low | high                | low | max.              |           | max.      | max.     | max.                             | max.              | max.            | high                                                           | low | max.                       |  |
| 2.5 <sup>1)</sup> | 6     | 0              | -4  | 0                   | -4  | 4                 | 3         | 2         | 3        | 4                                | 5                 | 7               | Identical to $\Delta_{Bs}$ of<br>inner ring of some<br>bearing |     | 2.5                        |  |
| 6                 | 18    | 0              | -4  | 0                   | -4  | 4                 | 3         | 2         | 3        | 4                                | 5                 | 7               |                                                                |     | 2.5                        |  |
| 18                | 30    | 0              | -5  | 0                   | -5  | 5                 | 4         | 2.5       | 4        | 4                                | 5                 | 7               |                                                                |     | 2.5                        |  |
| 30                | 50    | 0              | -6  | 0                   | -6  | 6                 | 5         | 3         | 5        | 4                                | 5                 | 7               |                                                                |     | 2.5                        |  |
| 50                | 80    | 0              | -7  | 0                   | -7  | 7                 | 5         | 3.5       | 5        | 4                                | 5                 | 7               |                                                                |     | 3                          |  |

- 注: 1)包括 2.5 在内。  
 2)仅适用于直径系列 0、1、2、3、及 4。  
 3)直径系列 7 和 8 无规定值。  
 4)闭型轴承无规定值。  
 5)不适用于凸缘外圈轴承。  
 6)仅适用于沟型球轴承。

- Note: 1)Including 2.5.  
 2)Only suitable for diameter series 0, 1, 2, 3 and 4.  
 3)Diameter series 7 and 8, no regular cost.  
 4)No regular cost in bearing of closed type.  
 5)Unsuitable for the outside flange of the bearing.  
 6)Only suitable for groove type ball bearing.

## Vibration and Noise

深沟球轴承加速度振动值(dB)见表 1

Deep Groove Ball Bearing Accelerating Vibration Value(dB). See Table 1

深沟球轴承速度级, 振动值( $\mu\text{m/s}$ )见表 2

Deep Groove Ball Bearing Accelerating Vibration Value( $\mu\text{m/s}$ ). See Table 2

表 1 单个轴承振动加速度级(dB)不超过

Table 1 Single Bearing Vibration speed Grade can not be over the following Values

| 轴承内径<br>Bore Diameter<br>mm | 直径系列(0)<br>Diameter Series |       |       | 直径系列(2)<br>Diameter Series |       |       |       | 直径系列(3)<br>Diameter Series |       |       |       |
|-----------------------------|----------------------------|-------|-------|----------------------------|-------|-------|-------|----------------------------|-------|-------|-------|
|                             | $Z_1$                      | $Z_2$ | $Z_3$ | $Z_1$                      | $Z_2$ | $Z_3$ | $Z_4$ | $Z_1$                      | $Z_2$ | $Z_3$ | $Z_4$ |
| 5                           | 36                         | 34    | 30    | 37                         | 34    | 32    | -     | 37                         | 35    | 33    | -     |
| 6                           | 36                         | 34    | 30    | 37                         | 34    | 32    | -     | 37                         | 35    | 33    | -     |
| 7                           | 38                         | 35    | 31    | 38                         | 36    | 34    | -     | -                          | -     | -     | -     |
| 8                           | 38                         | 35    | 31    | 38                         | 36    | 34    | -     | -                          | -     | -     | -     |
| 9                           | 40                         | 36    | 32    | 40                         | 37    | 35    | -     | -                          | -     | -     | -     |
| 10                          | 42                         | 38    | 33    | 42                         | 39    | 35    | 30    | 44                         | 40    | 37    | 32    |
| 12                          | 43                         | 39    | 34    | 43                         | 39    | 35    | 30    | 45                         | 40    | 37    | 32    |
| 15                          | 44                         | 40    | 35    | 44                         | 41    | 36    | 31    | 46                         | 42    | 38    | 33    |
| 17                          | 44                         | 40    | 35    | 45                         | 41    | 36    | 31    | 47                         | 42    | 38    | 33    |
| 20                          | 45                         | 41    | 36    | 46                         | 42    | 38    | 33    | 48                         | 43    | 39    | 34    |
| 25                          | 46                         | 42    | 38    | 47                         | 43    | 40    | 36    | 49                         | 44    | 41    | 37    |
| 30                          | 47                         | 43    | 39    | 48                         | 44    | 41    | 37    | 50                         | 45    | 42    | 38    |
| 35                          | 49                         | 45    | 41    | 50                         | 46    | 43    | 39    | 52                         | 47    | 44    | 40    |

表 2 单个轴承振动速度级允许极限值

Table 2 Single Bearing Vibration Speed Grade Allowed The Limit Value  $\mu\text{m/s}$

| 轴承公称内径<br>Bore Diameter<br>$d$<br>mm | $V_1$                   |                            |                          | $V_2$                   |                            |                          | $V_3$                   |                            |                          |
|--------------------------------------|-------------------------|----------------------------|--------------------------|-------------------------|----------------------------|--------------------------|-------------------------|----------------------------|--------------------------|
|                                      | 低频带<br>Low<br>Frequency | 中频带<br>Medium<br>Frequency | 高频带<br>High<br>Frequency | 低频带<br>Low<br>Frequency | 中频带<br>Medium<br>Frequency | 高频带<br>High<br>Frequency | 低频带<br>Low<br>Frequency | 中频带<br>Medium<br>Frequency | 高频带<br>High<br>Frequency |
| 5                                    | 90                      | 60                         | 50                       | 58                      | 36                         | 30                       | 35                      | 21                         | 18                       |
| 6                                    | 90                      | 60                         | 50                       | 58                      | 36                         | 30                       | 35                      | 21                         | 18                       |
| 7                                    | 110                     | 80                         | 65                       | 72                      | 48                         | 40                       | 44                      | 28                         | 24                       |
| 8                                    | 110                     | 80                         | 65                       | 72                      | 48                         | 40                       | 44                      | 28                         | 24                       |
| 9                                    | 110                     | 80                         | 65                       | 72                      | 48                         | 40                       | 44                      | 28                         | 24                       |
| 10                                   | 140                     | 100                        | 85                       | 90                      | 60                         | 50                       | 55                      | 35                         | 30                       |
| 12                                   | 140                     | 100                        | 85                       | 90                      | 60                         | 50                       | 55                      | 35                         | 30                       |
| 15                                   | 180                     | 130                        | 100                      | 110                     | 78                         | 60                       | 65                      | 46                         | 35                       |
| 17                                   | 180                     | 130                        | 100                      | 110                     | 78                         | 60                       | 65                      | 46                         | 35                       |
| 20                                   | 220                     | 160                        | 125                      | 130                     | 100                        | 75                       | 80                      | 60                         | 45                       |
| 22                                   | 220                     | 160                        | 125                      | 130                     | 100                        | 75                       | 80                      | 60                         | 45                       |
| 25                                   | 220                     | 160                        | 125                      | 130                     | 100                        | 75                       | 80                      | 60                         | 45                       |
| 30                                   | 250                     | 200                        | 160                      | 150                     | 120                        | 100                      | 90                      | 75                         | 60                       |
| 35                                   | 250                     | 200                        | 160                      | 150                     | 120                        | 100                      | 90                      | 75                         | 60                       |

## 游隙、包装、防锈 Clearance, Packing, Rustresisting

### 游隙 Clearance

径向游隙按ISO5753 标准分为五组。无预负荷的径向游隙值见以下图表:

In accordance with the standard of ISO 5753. The radial Clearance can be divided into five groups. Radial Clearance Value without load See table as follows:

深沟球轴承的径向游隙

μm

| 轴承内径<br>Bore diameter<br>d(mm) |         | 2 组<br>$C_2$ |            | 基本组<br>Standard |            | 3 组<br>$C_3$ |            | 4 组<br>$C_4$ |            | 5 组<br>$C_5$ |            |
|--------------------------------|---------|--------------|------------|-----------------|------------|--------------|------------|--------------|------------|--------------|------------|
| 超过<br>Over                     | 到<br>To | 最小<br>Min.   | 最大<br>Max. | 最小<br>Min.      | 最大<br>Max. | 最小<br>Min.   | 最大<br>Max. | 最小<br>Min.   | 最大<br>Max. | 最小<br>Min.   | 最大<br>Max. |
| 2.5                            | 6       | 0            | 7          | 2               | 13         | 8            | 23         | -            | -          | -            | -          |
| 6                              | 10      | 0            | 7          | 2               | 13         | 8            | 23         | 14           | 29         | 20           | 37         |
| 10                             | 18      | 0            | 9          | 3               | 18         | 11           | 25         | 18           | 33         | 25           | 45         |
| 18                             | 24      | 0            | 10         | 5               | 20         | 13           | 28         | 20           | 36         | 28           | 48         |
| 24                             | 30      | 1            | 11         | 5               | 20         | 13           | 28         | 23           | 41         | 30           | 53         |
| 30                             | 40      | 1            | 11         | 6               | 20         | 15           | 33         | 28           | 46         | 40           | 64         |

### 包装 Packing

轴承一般用塑料管或薄膜袋包装, 然后装入外包装纸箱内, 小型轴承也可每套装一小盒, 用户封包装有要求时, 可在合同上注明。

Generally AOKI Bearing is to be packed in the plastic pipes or the thin membrane bags(10 sets), then to be packed into the medium size Paper Box (50 sets or 100 sets). Small size bearing can be packed in individual box. Then all to be packed in to the carton as the external packing Small.

The users who have any requirements in packing may write them down in the contract

### 防锈 Rustresisting

轴承在正常储存、保管的条件下, 防锈期为半年, 如在防锈期内轴承生锈, 则凭合格证退货或调换, 保管期超过半年的, 应在防锈期到期日前检查后再按规定进行复防, 以保持轴承不生锈。

Bearing should normally be put under the protected condition then it is to be stored and preserved. The rustresisting period is half a year. If any bearing is rusted within the rustresisting period. upon the contract. you may claim for returning the goods or changing new ones. If there is half a year over the preservation period. at the time before the expiring date of rustresisting you have to check it over then according to the stipulation to be rustresisted again so as to keep the bearing not rusty.

普通級徑向軸承公差 (圓錐滾子軸承除外)

內圈

| d     |       | $\Delta_{dmp}^{1)}$ |      | $V_{dp}$ |      |         | $V_{dmp}$ |         | $\Delta_{Bs}$ |         | $\Delta_{B1s}$ |         | $V_{Bs}$ | $K_{1s}$ |  |
|-------|-------|---------------------|------|----------|------|---------|-----------|---------|---------------|---------|----------------|---------|----------|----------|--|
|       |       |                     |      | 直徑系列     |      |         |           |         |               |         |                |         |          |          |  |
|       |       |                     |      | 8, 9     | 0, 1 | 2, 3, 4 |           |         |               |         |                |         |          |          |  |
| 超過    | 包含    | 高                   | 低    | 最大       | 最大   | 最大      | 最大        | 高       | 低             | 高       | 低              | 最大      | 最大       |          |  |
| mm    |       | $\mu m$             |      | $\mu m$  |      |         | $\mu m$   | $\mu m$ |               | $\mu m$ |                | $\mu m$ | $\mu m$  |          |  |
| 2,5   | 10    | 0                   | -8   | 10       | 8    | 6       | 6         | 0       | -120          | 0       | -250           | 15      | 10       |          |  |
| 10    | 18    | 0                   | -8   | 10       | 8    | 6       | 6         | 0       | -120          | 0       | -250           | 20      | 10       |          |  |
| 18    | 30    | 0                   | -10  | 13       | 10   | 8       | 8         | 0       | -120          | 0       | -250           | 20      | 13       |          |  |
| 30    | 50    | 0                   | -12  | 15       | 12   | 9       | 9         | 0       | -120          | 0       | -250           | 20      | 15       |          |  |
| 50    | 80    | 0                   | -15  | 19       | 19   | 11      | 11        | 0       | -150          | 0       | -380           | 25      | 20       |          |  |
| 80    | 120   | 0                   | -20  | 25       | 25   | 15      | 15        | 0       | -200          | 0       | -380           | 25      | 25       |          |  |
| 120   | 180   | 0                   | -25  | 31       | 31   | 19      | 19        | 0       | -250          | 0       | -500           | 30      | 30       |          |  |
| 180   | 250   | 0                   | -30  | 38       | 38   | 23      | 23        | 0       | -300          | 0       | -500           | 30      | 40       |          |  |
| 250   | 315   | 0                   | -35  | 44       | 44   | 26      | 26        | 0       | -350          | 0       | -500           | 35      | 50       |          |  |
| 315   | 400   | 0                   | -40  | 50       | 50   | 30      | 30        | 0       | -400          | 0       | -630           | 40      | 60       |          |  |
| 400   | 500   | 0                   | -45  | 56       | 56   | 34      | 34        | 0       | -450          | 0       | -630           | 50      | 65       |          |  |
| 500   | 630   | 0                   | -50  | 63       | 63   | 38      | 38        | 0       | -500          | 0       | -800           | 60      | 70       |          |  |
| 630   | 800   | 0                   | -75  | -        | -    | -       | -         | 0       | -750          | -       | -              | 70      | 80       |          |  |
| 800   | 1 000 | 0                   | -100 | -        | -    | -       | -         | 0       | -1 000        | -       | -              | 80      | 90       |          |  |
| 1 000 | 1 250 | 0                   | -125 | -        | -    | -       | -         | 0       | -1 250        | -       | -              | 100     | 100      |          |  |
| 1 250 | 1 600 | 0                   | -160 | -        | -    | -       | -         | 0       | -1 600        | -       | -              | 120     | 120      |          |  |
| 1 600 | 2 000 | 0                   | -200 | -        | -    | -       | -         | 0       | -2 000        | -       | -              | 140     | 140      |          |  |

1) 錐形孔 (錐度 1:12 和 1:30) 公差可查 84 頁和 85 頁

外圈

| D     |       | $\Delta_{Dmp}$ |      | $V_{Dp}$ |      |         | $V_{Dmp}$ | $\Delta_{Cs}$ | $\Delta_{C1s}$                                                 | $V_{Cs}$ | $K_{es}$ |
|-------|-------|----------------|------|----------|------|---------|-----------|---------------|----------------------------------------------------------------|----------|----------|
|       |       | 高              | 低    | 最大       | 0, 1 | 2, 3, 4 | 最大        | 具防塵蓋或油封軸承 1)  |                                                                |          | 最大       |
| 超過    | 包含    |                |      |          |      |         |           |               |                                                                |          |          |
| mm    |       | $\mu m$        |      | $\mu m$  |      |         | $\mu m$   |               |                                                                |          | $\mu m$  |
| 6     | 18    | 0              | -8   | 10       | 8    | 6       | 10        | 6             | 數值與同一軸承內圈數值相同<br>( $\Delta_{Bs}$ , $\Delta_{B1s}$ , $V_{Bs}$ ) |          | 15       |
| 18    | 30    | 0              | -9   | 12       | 9    | 7       | 12        | 7             |                                                                |          | 15       |
| 30    | 50    | 0              | -11  | 14       | 11   | 8       | 16        | 8             |                                                                |          | 20       |
| 50    | 80    | 0              | -13  | 16       | 13   | 10      | 20        | 10            |                                                                |          | 25       |
| 80    | 120   | 0              | -15  | 19       | 19   | 11      | 26        | 11            |                                                                |          | 35       |
| 120   | 150   | 0              | -18  | 23       | 23   | 14      | 30        | 14            |                                                                |          | 40       |
| 150   | 180   | 0              | -25  | 31       | 31   | 19      | 38        | 19            |                                                                |          | 45       |
| 180   | 250   | 0              | -30  | 38       | 38   | 23      | -         | 23            |                                                                |          | 50       |
| 250   | 315   | 0              | -35  | 44       | 44   | 26      | -         | 26            |                                                                |          | 60       |
| 315   | 400   | 0              | -40  | 50       | 50   | 30      | -         | 30            |                                                                |          | 70       |
| 400   | 500   | 0              | -45  | 56       | 56   | 34      | -         | 34            |                                                                |          | 80       |
| 500   | 630   | 0              | -50  | 63       | 63   | 38      | -         | 38            |                                                                |          | 100      |
| 630   | 800   | 0              | -75  | 94       | 94   | 55      | -         | 55            |                                                                |          | 120      |
| 800   | 1 000 | 0              | -100 | 125      | 125  | 75      | -         | 75            |                                                                |          | 140      |
| 1 000 | 1 250 | 0              | -125 | -        | -    | -       | -         | -             |                                                                |          | 160      |
| 1 250 | 1 600 | 0              | -160 | -        | -    | -       | -         | -             |                                                                |          | 190      |
| 1 600 | 2 000 | 0              | -200 | -        | -    | -       | -         | -             |                                                                |          | 220      |
| 2 000 | 2 500 | 0              | -250 | -        | -    | -       | -         | -             |                                                                |          | 250      |

1) 僅適用直徑系列 2、3 和 4 的軸承

## 材料和精度 Materials and Accuracy

SMQ Bearing ring and Steel Ball are adopted with GCr15 to be made.

The Chemical Composition See Table 1.

The contrast of Bearing Steel No. of each country. See Table 2.

The preserving Shelf generally adopting H62 Brass Sheet or 0.8F cold rolling steel strap. punching to be made,also having plastics, phenol Aldehyde and preserving shelf.

**Table 1**

| Chemical Composition(%) |           |          |           |           |       |       |     |      |         |
|-------------------------|-----------|----------|-----------|-----------|-------|-------|-----|------|---------|
| No.                     | C         | Mn       | Si        | Cr        | S     | P     | Ni  | Cu   | HB      |
|                         |           |          |           |           | <     |       |     |      |         |
| GCr15                   | 0.95~1.05 | 0.20~0.4 | 0.15~0.35 | 1.30~1.65 | 0.020 | 0.027 | 0.3 | 0.25 | 170~207 |

**Table 2**

| Country           | China | ISO         | U.S.A       | Germany     | Japan     | Sweden |
|-------------------|-------|-------------|-------------|-------------|-----------|--------|
| Bearing Steel No. | GCr15 | 683/X VIII1 | (AISI)52100 | (Din)100Cr6 | (Jis)SUJ2 | SKF3   |

According to the International Standard, the Accuracy of AOKE Bearing can be divided into five grades: normal Grade 0. High Grade 6. Accurate grade 5. Over Accuracy Grade 4. and over the 4th grade 2.

The grade of tolerance is in accordance with the standard of GB/T 307.1-94

The Contrast of Bearing Accuracy See Table 3

**Table 3**

| Country                             | Standard | Accuracy Grade |       |       |       |       |
|-------------------------------------|----------|----------------|-------|-------|-------|-------|
| China                               | GB307.1  | 0              | 6     | 5     | 4     | 2     |
| International Standard Organization | ISO      | 0              | 6     | 5     | 4     | 2     |
| Sweden                              | SKF      | P0             | P6    | P5    | P4    | P2    |
| Germany                             | DIN      | P0             | P6    | P5    | P4    | P2    |
| Japan                               | JIS      | P0             | P6    | P5    | P4    | P2    |
| U.S.A                               | ANSI     | ABEC1          | ABEC3 | ABEC5 | ABEC7 | ABEC9 |