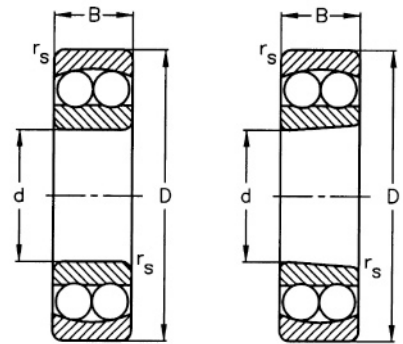


# Łożyska kulkowe wahlwe.

Self aligning ball bearings.



K

| Wymiary główne<br>Dimensions |     |    |                    | Oznaczenie<br>łożyska<br>Bearing<br>designation | Odmiana<br>Constructional series |   |    | Nośność<br>Load rating |                    | Obroty graniczne<br>Limiting speeds |                | Masa<br>Mass |
|------------------------------|-----|----|--------------------|---|----------------------------------|---|----|------------------------|--------------------|-------------------------------------|----------------|--------------|
|                              |     |    |                    |   | K                                | M | MB | dynam.<br>dynamic      | statycz.<br>static | w smarze<br>grease                  | w oleju<br>oil |              |
| d                            | D   | B  | r <sub>s min</sub> |   |                                  |   |    |                        |                    |                                     |                |              |
| mm                           |     |    |                    |   |                                  |   |    | daN                    |                    | obr. /min.                          |                | kg           |
| 30                           | 62  | 16 | 1                  | 1206  | ❖                                | ❖ |    | 1570                   | 470                | 10000                               | 13000          | 0.22         |
|                              | 72  | 19 | 1.1                | 1306  | ❖                                | ❖ |    | 2140                   | 635                | 9000                                | 11000          | 0.39         |
|                              | 72  | 27 | 1.1                | 2306  | ❖                                | ❖ |    | 3140                   | 865                | 8500                                | 10000          | 0.5          |
| 35                           | 72  | 17 | 1.1                | 1207  | ❖                                | ❖ |    | 1580                   | 510                | 9000                                | 11000          | 0.32         |
|                              | 72  | 23 | 1.1                | 2207  | ❖                                | ❖ |    | 2160                   | 665                | 8500                                | 10000          | 0.4          |
|                              | 80  | 21 | 1.5                | 1307  | ❖                                | ❖ |    | 2510                   | 795                | 7500                                | 9000           | 0.52         |
|                              | 80  | 31 | 1.5                | 2307  | ❖                                | ❖ |    | 3940                   | 1110               | 7000                                | 8500           | 0.68         |
| 40                           | 80  | 18 | 1.1                | 1208  | ❖                                | ❖ |    | 1920                   | 650                | 8500                                | 10000          | 0.42         |
|                              | 80  | 23 | 1.1                | 2208  | ❖                                | ❖ |    | 2230                   | 735                | 7500                                | 9000           | 0.51         |
|                              | 90  | 23 | 1.5                | 1308  | ❖                                | ❖ |    | 2950                   | 975                | 6700                                | 8000           | 0.72         |
|                              | 90  | 33 | 1.5                | 2308  | ❖                                | ❖ |    | 4480                   | 1340               | 6300                                | 7500           | 0.93         |
| 45                           | 85  | 19 | 1.1                | 1209  | ❖                                | ❖ |    | 2180                   | 740                | 7500                                | 9000           | 0.47         |
|                              | 85  | 23 | 1.1                | 2209  | ❖                                | ❖ |    | 2330                   | 815                | 7000                                | 8500           | 0.55         |
|                              | 100 | 25 | 1.5                | 1309  | ❖                                | ❖ |    | 3810                   | 1290               | 6300                                | 7500           | 0.96         |
|                              | 100 | 36 | 1.5                | 2309  | ❖                                | ❖ | ❖  | 5400                   | 1650               | 5600                                | 6700           | 1.25         |
| 50                           | 90  | 20 | 1.1                | 1210  | ❖                                | ❖ |    | 2270                   | 810                | 7000                                | 8500           | 0.53         |
|                              | 90  | 23 | 1.1                | 2210  | ❖                                | ❖ |    | 2330                   | 845                | 6300                                | 7500           | 0.59         |
|                              | 110 | 27 | 2                  | 1310  | ❖                                | ❖ |    | 4330                   | 1420               | 5600                                | 6700           | 1.2          |
|                              | 110 | 40 | 2                  | 2310  | ❖                                | ❖ |    | 6450                   | 2000               | 5300                                | 6300           | 1.65         |
| 55                           | 100 | 21 | 1.5                | 1211  | ❖                                | ❖ |    | 2670                   | 1000               | 6300                                | 7500           | 0.71         |
|                              | 100 | 25 | 1.5                | 2211  | ❖                                | ❖ |    | 2640                   | 995                | 6000                                | 7000           | 0.81         |
|                              | 120 | 29 | 2                  | 1311  | ❖                                | ❖ |    | 5150                   | 1810               | 5000                                | 6000           | 1.6          |
|                              | 120 | 43 | 2                  | 2311  | ❖                                | ❖ |    | 7550                   | 2380               | 4800                                | 5600           | 2.1          |
| 60                           | 110 | 22 | 1.5                | 1212  | ❖                                | ❖ |    | 3020                   | 1160               | 5600                                | 6700           | 1.1          |
|                              | 110 | 28 | 1.5                | 2212  | ❖                                | ❖ |    | 3390                   | 1250               | 5300                                | 6300           | 1.1          |
|                              | 130 | 31 | 2.1                | 1312  | ❖                                | ❖ |    | 5700                   | 2070               | 4500                                | 5300           | 1.95         |
|                              | 130 | 46 | 2.1                | 2312  | ❖                                | ❖ |    | 8700                   | 2790               | 4500                                | 5300           | 2.6          |
| 65                           | 120 | 23 | 1.5                | 1213  | ❖                                | ❖ |    | 3100                   | 1240               | 5300                                | 6300           | 1.15         |
|                              | 120 | 31 | 1.5                | 2213  | ❖                                | ❖ |    | 4350                   | 1630               | 5000                                | 6000           | 1.45         |
|                              | 140 | 33 | 2.1                | 1313  | ❖                                | ❖ |    | 6200                   | 2290               | 4300                                | 5000           | 2.45         |
|                              | 140 | 48 | 2.1                | 2313  | ❖                                | ❖ |    | 9600                   | 3240               | 4000                                | 4900           | 3.25         |
| 70                           | 125 | 24 | 1.5                | 1214  | ❖                                | ❖ |    | 3460                   | 1370               | 5000                                | 6000           | 1.25         |
|                              | 150 | 35 | 2.1                | 1314  | ❖                                | ❖ |    | 7450                   | 2770               | 4000                                | 4800           | 3            |
| 75                           | 130 | 25 | 1.5                | 1215  | ❖                                | ❖ |    | 3890                   | 1550               | 4800                                | 5600           | 1.35         |
|                              | 160 | 37 | 2.1                | 1315  | ❖                                | ❖ |    | 7900                   | 2990               | 3900                                | 4500           | 3.55         |
| 80                           | 140 | 26 | 2                  | 1216  | ❖                                | ❖ |    | 3980                   | 1690               | 4500                                | 5300           | 1.65         |
|                              | 170 | 39 | 2.1                | 1316  | ❖                                | ❖ |    | 8850                   | 3300               | 3600                                | 4300           | 4.2          |
|                              | 170 | 58 | 2.1                | 2316  |                                  |   | ❖  | 14500                  | 5150               | 3200                                | 3800           | 6.1          |
| 85                           | 150 | 28 | 2                  | 1217  | ❖                                | ❖ |    | 4920                   | 2050               | 4200                                | 4800           | 2.05         |
|                              | 150 | 36 | 2                  | 2217  | ❖                                | ❖ |    | 5800                   | 2360               | 3800                                | 4500           | 2.3          |
| 90                           | 190 | 43 | 3                  | 1318  |                                  | ❖ | ❖  | 11600                  | 4480               | 2800                                | 3400           | 5.3          |
| 100                          | 180 | 34 | 2.1                | 1220  | ❖                                | ❖ |    | 6900                   | 2950               | 3400                                | 4000           | 3.7          |

**K** Łożysko poprzeczne z otworem stożkowym (1:12)  
- Bearing with tapered bore (taper 1:12)

**MB** Masywny koszyk mosiężny prowadzony na pierścieniu wewnętrznym

**M** Masywny koszyk mosiężny prowadzony na elementach toczących  
- Solid brass cage centred on the rolling elements

- Solid brass cage centred on the inner ring