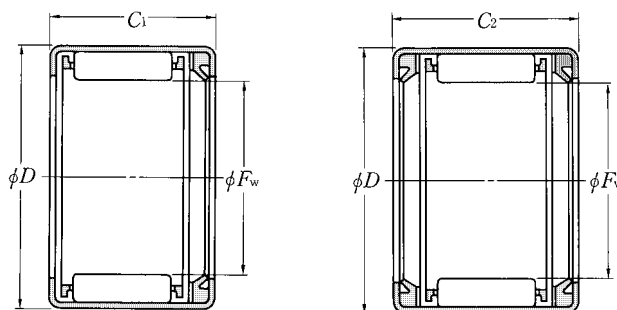


- Type HK··L
- Type HMK··L
- Type HK··LL
- Type HMK··LL
- Type BK··L

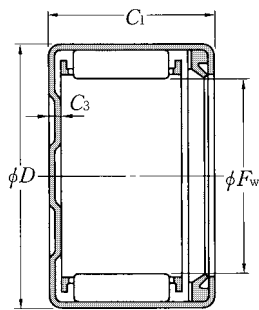


**Type HK··L, Type HMK··L** (Opened end and single-side seal type)     **Type HK··LL, Type HMK··LL** (Opened end and double-side seal type)

$F_w$  8~25mm

| Boundary dimensions |     |                          |                          |              | Basic load ratings    |                         |                         |                           | Limiting speeds<br>r/min<br>grease | Bearing numbers         |                         |                           |
|---------------------|-----|--------------------------|--------------------------|--------------|-----------------------|-------------------------|-------------------------|---------------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| $F_w$               | $D$ | $C_1$<br>mm<br>0<br>-0.2 | $C_2$<br>mm<br>0<br>-0.2 | $C_3$<br>max | dynamic<br>N<br>$C_r$ | static<br>N<br>$C_{or}$ | dynamic<br>kgf<br>$C_r$ | static<br>kgf<br>$C_{or}$ |                                    | open end<br>single seal | open end<br>double seal | closed end<br>single seal |
| 8                   | 15  | 12                       | 14                       | —            | 3 800                 | 2 870                   | 390                     | 293                       | 10 000                             | HMK0812L                | HMK0814LL               | —                         |
| 10                  | 17  | 12                       | 14                       | —            | 4 250                 | 3 450                   | 435                     | 350                       | 10 000                             | HMK1012L                | HMK1014LL               | —                         |
| 12                  | 18  | 14                       | 16                       | 2.7          | 6 600                 | 7 300                   | 675                     | 745                       | 10 000                             | HK 1214L                | HK 1216LL               | BK1214L                   |
|                     | 19  | 14                       | 16                       | —            | 7 100                 | 6 900                   | 725                     | 705                       | 10 000                             | HMK1214L                | HMK1216LL               | —                         |
| 14                  | 20  | 14                       | 16                       | 2.7          | 7 200                 | 8 500                   | 735                     | 865                       | 10 000                             | HK 1414L                | HK 1416LL               | BK1414L                   |
|                     | 22  | 19                       | 22                       | —            | 11 500                | 12 000                  | 1 180                   | 1 220                     | 10 000                             | HMK1419L                | HMK1422LL               | —                         |
| 15                  | 21  | 14                       | 16                       | 2.7          | 7 500                 | 9 100                   | 765                     | 930                       | 10 000                             | HK 1514L                | HK 1516LL               | BK1514L                   |
|                     | 22  | 13                       | 16                       | —            | 6 100                 | 6 000                   | 620                     | 610                       | 10 000                             | HMK1513L                | HMK1516LL               | —                         |
|                     | 22  | 18                       | 21                       | —            | 10 900                | 12 700                  | 1 120                   | 1 300                     | 10 000                             | HMK1518L                | HMK1521LL               | —                         |
| 16                  | 22  | 14                       | 16                       | 2.7          | 7 750                 | 9 700                   | 795                     | 990                       | 10 000                             | HK 1614L                | HK 1616LL               | BK1614L                   |
|                     | 24  | 23                       | 26                       | —            | 15 600                | 18 200                  | 1 590                   | 1 860                     | 10 000                             | HMK1623L                | HMK1626LL               | —                         |
| 17                  | 24  | 18                       | 21                       | —            | 12 100                | 15 000                  | 1 230                   | 1 530                     | 9 500                              | HMK1718L                | HMK1721LL               | —                         |
| 18                  | 24  | 14                       | 16                       | 2.7          | 8 300                 | 10 900                  | 845                     | 1 110                     | 9 000                              | HK 1814L                | HK 1816LL               | BK1814L                   |
|                     | 25  | 18                       | 21                       | —            | 12 000                | 15 100                  | 1 220                   | 1 540                     | 9 000                              | HMK1818L                | HMK1821LL               | —                         |
|                     | 25  | 20                       | 23                       | —            | 13 800                | 18 000                  | 1 400                   | 1 830                     | 9 000                              | HMK1820L                | HMK1823LL               | —                         |
| 19                  | 27  | 19                       | 22                       | —            | 13 900                | 16 300                  | 1 410                   | 1 660                     | 8 500                              | HMK1919L                | HMK1922LL               | —                         |
| 20                  | 26  | —                        | 16                       | —            | 9 250                 | 13 000                  | 945                     | 1 330                     | 8 000                              | —                       | HK 2016LL               | —                         |
|                     | 26  | 18                       | 20                       | 2.7          | 13 000                | 20 100                  | 1 320                   | 2 050                     | 8 000                              | HK 2018L                | HK 2020LL               | BK2018L                   |
|                     | 27  | 18                       | 21                       | —            | 13 000                | 17 300                  | 1 330                   | 1 760                     | 8 000                              | HMK2018L                | HMK2021LL               | —                         |
|                     | 27  | 23                       | 26                       | —            | 17 700                | 25 600                  | 1 800                   | 2 610                     | 8 000                              | HMK2023L                | HMK2026LL               | —                         |
| 22                  | 28  | —                        | 16                       | —            | 9 750                 | 14 300                  | 995                     | 1 460                     | 7 500                              | —                       | HK 2216LL               | —                         |
|                     | 28  | 18                       | 20                       | 2.7          | 13 600                | 22 100                  | 1 390                   | 2 250                     | 7 500                              | HK 2218L                | HK 2220LL               | BK2218L                   |
|                     | 29  | 18                       | 21                       | —            | 13 400                | 18 500                  | 1 370                   | 1 890                     | 7 500                              | HMK2218L                | HMK2221LL               | —                         |
|                     | 29  | 23                       | 26                       | —            | 18 200                | 27 400                  | 1 860                   | 2 790                     | 7 500                              | HMK2223L                | HMK2226LL               | —                         |
| 24                  | 31  | 23                       | 26                       | —            | 18 800                | 29 100                  | 1 910                   | 2 970                     | 6 500                              | HMK2423L                | HMK2426LL               | —                         |
| 25                  | 32  | —                        | 16                       | —            | 11 800                | 16 300                  | 1 200                   | 1 660                     | 6 500                              | —                       | HK 2516LL               | —                         |
|                     | 32  | 18                       | 20                       | 2.7          | 15 900                | 24 000                  | 1 620                   | 2 450                     | 6 500                              | HK 2518L                | HK 2520LL               | BK2518L                   |

Note 1) Bearing with inner ring is represented by HK+IR. (Refer to "Inner Ring Dimensions Table" on page B-117 to B119.)  
EX. HK1416LL + IR10×14×20



**Type BK·L**  
(Closed end and single-side seal type)

| open end<br>single seal | Mass<br>kg<br>(approx.) |                           | Appropriate <sup>1)</sup><br>inner ring<br>(as a reference) |              |
|-------------------------|-------------------------|---------------------------|---|--------------|
|                         | open end<br>double seal | closed end<br>single seal | single seal   | double seal  |
| 0.0071                  | 0.0075                  | —                         | IR 5×8×16   | IR 5× 8×16   |
| 0.0084                  | 0.0089                  | —                         | IR 7×10×16  | IR 7×10×16   |
| 0.011                   | 0.0120                  | 0.012                     | IR 9×12×16  | —            |
| 0.011                   | 0.0120                  | —                         | IR 9×12×16  | —            |
| 0.012                   | 0.0140                  | 0.014                     | IR10×14×16  | IR10×14×20   |
| 0.020                   | 0.0210                  | —                         | IR10×14×20  | —            |
| 0.013                   | 0.0140                  | 0.014                     | IR12×15×16.5  | IR12×15×16.5 |
| 0.014                   | 0.0150                  | —                         | IR12×15×16  | IR12×15×16.5 |
| 0.017                   | 0.0180                  | —                         | IR12×15×22.5  | IR12×15×22.5 |
| 0.013                   | 0.0150                  | 0.015                     | IR12×16×16  | IR12×16×20   |
| 0.028                   | 0.0290                  | —                         | —   | —            |
| 0.019                   | 0.0200                  | —                         | IR12×17×20.5  | IR12×17×25.5 |
| 0.015                   | 0.0170                  | 0.017                     | IR15×18×16  | IR15×18×17.5 |
| 0.020                   | 0.0210                  | —                         | IR15×18×20.5  | IR15×18×25.5 |
| 0.023                   | 0.0240                  | —                         | IR15×18×20.5  | IR15×18×25.5 |
| 0.027                   | 0.0290                  | —                         | IR15×19×20  | —            |
| —                       | 0.0190                  | —                         | —   | IR15×20×18   |
| 0.021                   | 0.0240                  | 0.024                     | IR17×20×20  | IR17×20×20.5 |
| 0.022                   | 0.0240                  | —                         | IR17×20×20  | IR15×20×23   |
| 0.029                   | 0.0310                  | —                         | IR15×20×26  | IR17×20×30.5 |
| —                       | 0.0200                  | —                         | —   | IR17×22×18   |
| 0.024                   | 0.0260                  | 0.027                     | IR17×22×20.5  | IR17×22×23   |
| 0.024                   | 0.0260                  | —                         | IR17×22×20.5  | IR17×22×23   |
| 0.032                   | 0.0330                  | —                         | IR17×22×26  | —            |
| 0.035                   | 0.0370                  | —                         | —   | IR20×24×28.5 |
| —                       | 0.0270                  | —                         | —   | IR20×25×18D  |
| 0.031                   | 0.0330                  | 0.035                     | IR20×25×20  | IR20×25×23   |