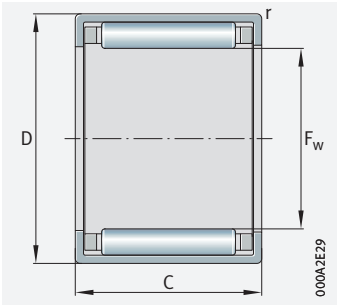
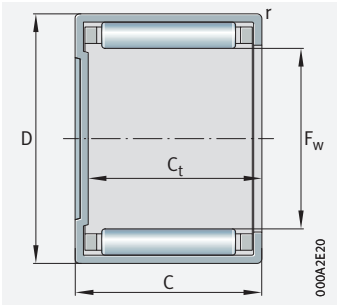
# Drawn cup needle roller bearings with open ends

# Drawn cup needle roller bearings with closed end

Unsealed




*HK*




*BK*

## $F_w$ = 2 – 16 mm

| Main dimensions | | | Basic load ratings | | Fatigue limit load | Limiting speed | Speed rating | Drawn cup needle roller bearings with open ends | | Drawn cup needle roller bearings with closed end | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $F_w$ | D | C | dyn. $C_r$ | stat. $C_{0r}$ | $C_{ur}$ | $n_G$ | $n_{\vartheta r}$ | Mass m | Designation ➤*904\|1.12* ➤*904\|1.13* | Mass m | Designation ➤*904\|1.12* ➤*904\|1.13* |
| | | –0,3 | N | N | N | $min^{-1}$ | $min^{-1}$ | ≈ g | | ≈ g | |
| **2** | 4,6 | 5 | 465 | 265 | 45,5 | 58 000 | 93 000 | 0,3 | **HK0205-TV**[1] | – | – |
| **3** | 6,5 | 6 | 1 230 | 840 | 145 | 48 000 | 57 000 | 1 | **HK0306-TV**[1] | 1 | **BK0306-TV**[1] |
| **4** | 8 | 8 | 1 780 | 1 310 | 147 | 42 500 | 44 500 | 1,5 | **HK0408**[1] | 1,6 | **BK0408**[1] |
| **5** | 9 | 9 | 2 400 | 1 990 | 243 | 39 000 | 36 500 | 2 | **HK0509**[1] | 2,1 | **BK0509**[1] |
| **6** | 10 | 6 | 1 610 | 1 220 | 212 | 36 500 | 31 500 | 1,5 | **HK0606**[1] | – | – |
| | 10 | 8 | 2 030 | 1 650 | 187 | 36 500 | 31 500 | 2,1 | **HK0608**[1] | – | – |
| | 10 | 9 | 2 850 | 2 600 | 320 | 36 500 | 30 500 | 2,5 | **HK0609** | 2,6 | **BK0609** |
| **7** | 11 | 9 | 3 100 | 2 950 | 360 | 33 000 | 26 500 | 2,6 | **HK0709** | 2,9 | **BK0709** |
| **8** | 12 | 8 | 2 750 | 2 600 | 300 | 29 500 | 23 800 | 2,7 | **HK0808** | 3 | **BK0808** |
| | 12 | 10 | 3 800 | 3 950 | 510 | 29 500 | 23 200 | 3 | **HK0810** | 3,4 | **BK0810** |
| **9** | 13 | 8 | 3 550 | 3 750 | 450 | 26 500 | 20 600 | 3 | **HK0908** | – | – |
| | 13 | 10 | 4 250 | 4 650 | 610 | 26 500 | 20 600 | 4 | **HK0910** | 4,3 | **BK0910** |
| | 13 | 12 | 5 300 | 6 300 | 870 | 26 500 | 20 200 | 4,6 | **HK0912** | 4,9 | **BK0912** |
| **10** | 14 | 10 | 4 400 | 5 100 | 670 | 24 300 | 18 700 | 4,1 | **HK1010** | 4,3 | **BK1010** |
| | 14 | 12 | 5 500 | 6 800 | 950 | 24 300 | 18 400 | 4,8 | **HK1012** | 5 | **BK1012** |
| | 14 | 15 | 6 800 | 8 800 | 1 230 | 24 300 | 18 200 | 6 | **HK1015** | 6,2 | **BK1015** |
| **12** | 16 | 10 | 4 950 | 6 200 | 820 | 20 700 | 15 700 | 4,6 | **HK1210** | 5,2 | **BK1210** |
| | 18 | 12 | 6 500 | 7 300 | 880 | 20 000 | 15 500 | 9 | **HK1212** | 10 | **BK1212** |
| | 18 | 16 | 9 300 | 11 500 | 1 450 | 20 000 | 15 100 | 13 | **HK1216** | – | – |
| **13** | 19 | 12 | 6 800 | 7 900 | 960 | 18 700 | 14 400 | 10 | **HK1312** | 11 | **BK1312** |
| **14** | 20 | 12 | 7 100 | 8 500 | 1 030 | 17 500 | 13 500 | 10,5 | **HK1412** | 12 | **BK1412** |
| **15** | 21 | 12 | 7 900 | 9 400 | 1 170 | 16 300 | 12 300 | 11 | **HK1512** | 13 | **BK1512** |
| | 21 | 16 | 10 500 | 14 400 | 1 810 | 16 500 | 12 300 | 15 | **HK1516** | 17 | **BK1516** |
| | 21 | 22 | 13 400 | 19 500 | 2 420 | 16 500 | 12 300 | 20 | **HK1522-ZW** | – | – |
| **16** | 22 | 12 | 7 600 | 9 700 | 1 180 | 15 600 | 11 900 | 12 | **HK1612** | 14 | **BK1612** |
| | 22 | 16 | 10 900 | 15 300 | 1 940 | 15 600 | 11 600 | 16 | **HK1616** | 18 | **BK1616** |
| | 22 | 22 | 13 100 | 19 400 | 2 360 | 15 600 | 11 700 | 22 | **HK1622-ZW** | 24 | **BK1622-ZW** |

***medias*** *https://www.schaeffler.de/std/1F9A*

1) Not available with lubrication hole.

2) For unsealed drawn cup needle roller bearings, dimensionally matched sealing rings of series G or SD can be used to provide protection against contamination.