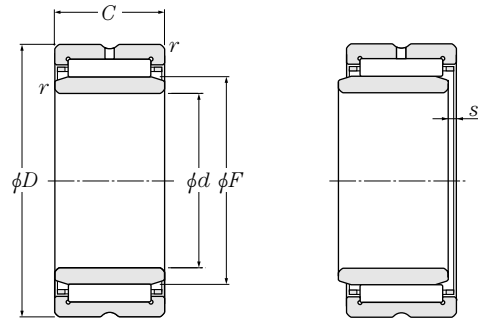


With inner ring

Type NA49
 Type NA59
 Type NA69
 Type NK+IR

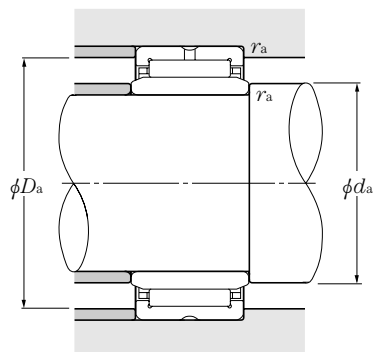


Type NA49 · R
 Type NA59
 Type NA69 · R ($d \leq 30\text{mm}$)
 Type NK+IR

d 17~32mm

| Boundary dimensions | | | | | | Basic load ratings | | | | Limiting speeds | | Bearing numbers |
|---------------------|-----|-----|-------------------|-----|----------|--------------------|----------|---------|----------|-----------------|--------|---------------------|
| mm | | | | | | dynamic | static | dynamic | static | r/min | | |
| d | D | C | $r_{s \min}^{1)}$ | F | $s^{2)}$ | C_r | C_{or} | C_r | C_{or} | grease | oil | |
| 17 | 30 | 23 | 0.3 | 22 | 1 | 18 200 | 27 200 | 1 850 | 2 770 | 12 000 | 18 000 | NA6903R |
| | 32 | 16 | 0.3 | 24 | 0.5 | 15 200 | 22 300 | 1 550 | 2 280 | 11 000 | 17 000 | NK24/16R+IR20×24×16 |
| 20 | 32 | 20 | 0.3 | 24 | 0.5 | 18 600 | 28 800 | 1 890 | 2 930 | 11 000 | 17 000 | NK24/20R+IR20×24×20 |
| | 37 | 17 | 0.3 | 25 | 0.8 | 21 300 | 25 500 | 2 170 | 2 600 | 11 000 | 16 000 | NA4904R |
| | 37 | 23 | 0.3 | 25 | 0.8 | 28 400 | 37 000 | 2 900 | 3 750 | 11 000 | 16 000 | NA5904 |
| | 37 | 30 | 0.3 | 25 | 1 | 36 500 | 50 500 | 3 700 | 5 150 | 11 000 | 16 000 | NA6904R |
| 22 | 34 | 16 | 0.3 | 26 | 0.5 | 15 600 | 23 600 | 1 590 | 2 410 | 10 000 | 15 000 | NK26/16R+IR22×26×16 |
| | 34 | 20 | 0.3 | 26 | 0.5 | 19 100 | 30 500 | 1 940 | 3 100 | 10 000 | 15 000 | NK26/20R+IR22×26×20 |
| | 39 | 17 | 0.3 | 28 | 0.8 | 23 200 | 29 300 | 2 360 | 2 990 | 9 500 | 14 000 | NA49/22R |
| | 39 | 23 | 0.3 | 28 | 0.8 | 26 400 | 37 500 | 2 690 | 3 850 | 9 500 | 14 000 | NA59/22 |
| | 39 | 30 | 0.3 | 28 | 0.5 | 40 000 | 58 500 | 4 050 | 6 000 | 9 500 | 14 000 | NA69/22R |
| 25 | 38 | 20 | 0.3 | 29 | 1 | 22 200 | 34 000 | 2 270 | 3 450 | 9 500 | 14 000 | NK29/20R+IR25×29×20 |
| | 38 | 30 | 0.3 | 29 | 1.5 | 27 500 | 50 500 | 2 810 | 5 150 | 9 500 | 14 000 | NK29/30R+IR25×29×30 |
| | 42 | 17 | 0.3 | 30 | 0.8 | 24 000 | 31 500 | 2 450 | 3 200 | 8 500 | 13 000 | NA4905R |
| | 42 | 23 | 0.3 | 30 | 0.8 | 30 500 | 43 000 | 3 150 | 4 350 | 8 500 | 13 000 | NA5905 |
| | 42 | 30 | 0.3 | 30 | 1 | 41 500 | 63 000 | 4 200 | 6 400 | 8 500 | 13 000 | NA6905R |
| 28 | 42 | 20 | 0.3 | 32 | 1 | 23 500 | 37 500 | 2 400 | 3 850 | 8 500 | 13 000 | NK32/20R+IR28×32×20 |
| | 42 | 30 | 0.3 | 32 | 1.5 | 34 000 | 60 500 | 3 450 | 6 150 | 8 500 | 13 000 | NK32/30R+IR28×32×30 |
| | 45 | 17 | 0.3 | 32 | 0.8 | 24 800 | 33 500 | 2 530 | 3 400 | 8 500 | 13 000 | NA49/28R |
| | 45 | 23 | 0.3 | 32 | 0.8 | 32 000 | 45 500 | 3 250 | 4 650 | 8 500 | 13 000 | NA59/28 |
| | 45 | 30 | 0.3 | 32 | 1 | 43 000 | 67 000 | 4 350 | 6 850 | 8 500 | 13 000 | NA69/28R |
| 30 | 45 | 20 | 0.3 | 35 | 0.5 | 24 800 | 41 500 | 2 520 | 4 250 | 7 500 | 11 000 | NK35/20R+IR30×35×20 |
| | 45 | 30 | 0.3 | 35 | 1 | 36 000 | 66 500 | 3 650 | 6 800 | 7 500 | 11 000 | NK35/30R+IR30×35×30 |
| | 47 | 17 | 0.3 | 35 | 0.8 | 25 500 | 35 500 | 2 600 | 3 600 | 7 500 | 11 000 | NA4906R |
| | 47 | 23 | 0.3 | 35 | 0.8 | 32 500 | 48 500 | 3 350 | 4 950 | 7 500 | 11 000 | NA5906 |
| | 47 | 30 | 0.3 | 35 | 1 | 42 500 | 67 500 | 4 300 | 6 900 | 7 500 | 11 000 | NA6906R |
| 32 | 47 | 20 | 0.3 | 37 | 0.5 | 25 300 | 43 500 | 2 580 | 4 400 | 7 500 | 11 000 | NK37/20R+IR32×37×20 |
| | 47 | 30 | 0.3 | 37 | 1 | 36 500 | 69 500 | 3 750 | 7 100 | 7 500 | 11 000 | NK37/30R+IR32×37×30 |
| | 52 | 20 | 0.6 | 40 | 0.8 | 31 500 | 47 500 | 3 200 | 4 850 | 6 500 | 10 000 | NA49/32R |

Note 1) Allowable minimum chamfer dimension r . 2) Allowable axial stroking value of inner ring against outer ring.
 Remarks: Nominal code number of inner ring (IR) comprises the codes of IR bore diameter×outer diameter×width.



| Abutment dimensions | | | Mass |
|---------------------|-------|----------|-----------|
| d_a | mm | | kg |
| min | D_a | r_{as} | (approx.) |
| | max | max | |
| 19 | 28 | 0.3 | 0.069 |
| 22 | 30 | 0.3 | 0.049 |
| 22 | 30 | 0.3 | 0.061 |
| 22 | 35 | 0.3 | 0.074 |
| 22 | 35 | 0.3 | 0.115 |
| 22 | 35 | 0.3 | 0.141 |
| 24 | 32 | 0.3 | 0.046 |
| 24 | 32 | 0.3 | 0.064 |
| 24 | 37 | 0.3 | 0.080 |
| 24 | 37 | 0.3 | 0.134 |
| 24 | 37 | 0.3 | 0.154 |
| 27 | 36 | 0.3 | 0.079 |
| 27 | 36 | 0.3 | 0.123 |
| 27 | 40 | 0.3 | 0.088 |
| 27 | 40 | 0.3 | 0.139 |
| 27 | 40 | 0.3 | 0.162 |
| 30 | 40 | 0.3 | 0.096 |
| 30 | 40 | 0.3 | 0.146 |
| 30 | 43 | 0.3 | 0.098 |
| 30 | 43 | 0.3 | 0.142 |
| 30 | 43 | 0.3 | 0.179 |
| 32 | 43 | 0.3 | 0.112 |
| 32 | 43 | 0.3 | 0.171 |
| 32 | 45 | 0.3 | 0.101 |
| 32 | 45 | 0.3 | 0.152 |
| 32 | 45 | 0.3 | 0.185 |
| 34 | 45 | 0.3 | 0.117 |
| 34 | 45 | 0.3 | 0.170 |
| 36 | 48 | 0.6 | 0.157 |