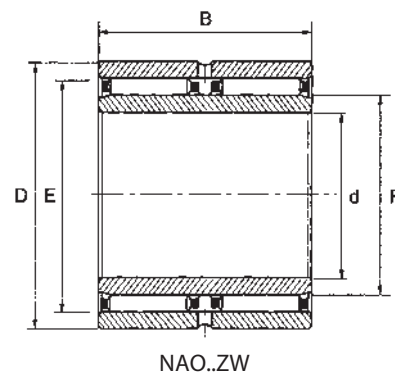
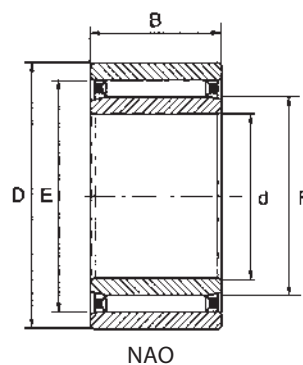


| Diametro albero (mm)<br>Shaft diameter (mm) | Sigla<br>Designation | Peso (g)<br>Weight (g) | Dimensioni (mm)<br>Dimensions (mm) |     |      |     |     | Coefficienti di carico (N)<br>Basic load ratings (N) |                                                 | Velocità limite<br>Limiting Speed |
|---------------------------------------------|----------------------|------------------------|------------------------------------|-----|------|-----|-----|------------------------------------------------------|-------------------------------------------------|-----------------------------------|
|                                             |                      |                        | d                                  | D   | B    | F   | E   | Dinamico C<br>Dynamic C                              | Statico C <sub>0</sub><br>Static C <sub>0</sub> |                                   |
| 6                                           | • NAO 6x17x10 TN     | 13                     | 6                                  | 17  | 10   | 10  | 13  | 4 500                                                | 5 200                                           | 27 550                            |
| 9                                           | NAO 9x22x12 TN       | 22                     | 9                                  | 22  | 12   | 12  | 18  | 9 500                                                | 9 400                                           | 23 750                            |
| 12                                          | NAO 12x24x13         | 29                     | 12                                 | 24  | 13   | 16  | 20  | 8 450                                                | 11 200                                          | 22 800                            |
|                                             | NAO 12x24x20         | 43                     | 12                                 | 24  | 20   | 16  | 20  | 12 635                                               | 18 810                                          | 22 800                            |
|                                             | NAO 12x28x12         | 38.6                   | 12                                 | 28  | 12   | 16  | 22  | 10 900                                               | 11 900                                          | 20 900                            |
| 15                                          | NAO 15x28x13         | 27.8                   | 15                                 | 28  | 13   | 20  | 24  | 9 300                                                | 13 600                                          | 20 900                            |
|                                             | NAO 15x32x12         | 48.1                   | 15                                 | 32  | 12   | 20  | 26  | 12 700                                               | 15 400                                          | 20 000                            |
| 17                                          | NAO 17x30x13         | 39                     | 17                                 | 30  | 13   | 22  | 26  | 9 860                                                | 15 000                                          | 20 000                            |
|                                             | NAO 17x35x16         | 70                     | 17                                 | 35  | 16   | 22  | 29  | 19 000                                               | 24 200                                          | 18 000                            |
| 20                                          | NAO 20x35x17         | 72                     | 20                                 | 35  | 17   | 25  | 29  | 14 200                                               | 24 700                                          | 17 100                            |
|                                             | NAO 20x37x16         | 81                     | 20                                 | 37  | 16   | 25  | 32  | 19 900                                               | 26 600                                          | 16 150                            |
| 25                                          | NAO 25x40x17         | 78.9                   | 25                                 | 40  | 17   | 30  | 35  | 18 600                                               | 32 300                                          | 14 250                            |
|                                             | • NAO 25x42x16       | 83                     | 25                                 | 42  | 16   | 30  | 37  | 21 900                                               | 31 800                                          | 14 250                            |
|                                             | NAO 25x42x32 - ZW    | 189                    | 25                                 | 42  | 32   | 30  | 37  | 37 500                                               | 63 650                                          | 14 250                            |
| 30                                          | NAO 30x45x13         | 73                     | 30                                 | 45  | 13   | 35  | 40  | 15 390                                               | 26 600                                          | 12 000                            |
|                                             | NAO 30x45x17         | 100                    | 30                                 | 45  | 17   | 35  | 40  | 19 760                                               | 36 600                                          | 12 350                            |
|                                             | NAO 30x45x26 - ZW    | 150                    | 30                                 | 45  | 26   | 35  | 40  | 26 100                                               | 53 200                                          | 12 350                            |
|                                             | NAO 30x47x16         | 99.8                   | 30                                 | 47  | 16   | 35  | 42  | 23 180                                               | 35 600                                          | 12 350                            |
|                                             | NAO 30x47x18         | 109                    | 30                                 | 47  | 18   | 35  | 42  | 26 100                                               | 40 850                                          | 12 350                            |
|                                             | NAO 30x52x18         | 172                    | 30                                 | 52  | 18   | 37  | 44  | 26 600                                               | 43 225                                          | 11 000                            |
| 35                                          | NAO 35x50x17         | 103                    | 35                                 | 50  | 17   | 40  | 45  | 20 800                                               | 40 506                                          | 10 000                            |
|                                             | NAO 35x55x20         | 175                    | 35                                 | 55  | 20   | 40  | 47  | 30 900                                               | 54 150                                          | 10 450                            |
|                                             | # NAO 35x57x20.5     | 206                    | 35                                 | 57  | 20.5 | 42  | 50  | 34 200                                               | 56 050                                          | 10 000                            |
| 40                                          | NAO 40x55x17         | 118                    | 40                                 | 55  | 17   | 45  | 50  | 21 400                                               | 43 700                                          | 9 500                             |
|                                             | • NAO 40x65x20       | 269                    | 40                                 | 65  | 20   | 50  | 58  | 35 000                                               | 61 200                                          | 8 000                             |
| 50                                          | • NAO 50x68x20       | 219                    | 50                                 | 68  | 20   | 55  | 60  | 27 100                                               | 62 700                                          | 8 100                             |
|                                             | • NAO 50x78x20       | 400                    | 50                                 | 78  | 20   | 60  | 68  | 41 325                                               | 80 750                                          | 6 500                             |
| 70                                          | NAO 70x100x30        | 829                    | 70                                 | 100 | 30   | 80  | 88  | 67 450                                               | 167 200                                         | 5 700                             |
| 75                                          | NAO 75x100x25        | 676                    | 75                                 | 105 | 25   | 85  | 93  | 54 150                                               | 129 200                                         | 5 000                             |
| 80                                          | NAO 80x110x30        | 892                    | 80                                 | 110 | 30   | 90  | 98  | 64 600                                               | 163 400                                         | 4 750                             |
| 90                                          | NAO 90x120x30        | 1 004                  | 90                                 | 120 | 30   | 100 | 108 | 67 450                                               | 178 600                                         | 4 500                             |

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (funzionamento continuo).

TN = Plastic cage; temperature allowed: 80°C (continuous working).

ZW = A due corone, con gola e foro di lubrificazione nell'anello esterno

ZW = Double row, with groove and lubrication hole in the outer rings

# Larghezza anello esterno = 20 mm.

# Width of outer ring = 20 mm.

• Foro di lubrificazione nell'anello interno

• Lubrication hole in inner ring

## RPNA

| Diametro albero (mm)<br>Shaft Diameter (mm) | Sigla<br>Designation | Peso (g)<br>Weight (g) | Dimensioni (mm)<br>Dimensions (mm) |    |            |      |                        | Coefficienti di carico (N)<br>Basic Load Rating (N) |                                                 | Velocità limite<br>Limiting Speed |
|---------------------------------------------|----------------------|------------------------|------------------------------------|----|------------|------|------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------|
|                                             |                      |                        | Fw                                 | D  | C<br>± 0,5 | D1   | r <sub>s</sub><br>min. | Dinamico C<br>Dynamic C                             | Statico C <sub>0</sub><br>Static C <sub>0</sub> |                                   |
| 15                                          | RPNA 15/28           | 32                     | 15                                 | 28 | 12         | 24.5 | 0.8                    | 6 500                                               | 7 500                                           | 24 000                            |
| 18                                          | RPNA 18/32           | 52                     | 18                                 | 32 | 16         | 27   | 0.8                    | 11 900                                              | 15 400                                          | 22 000                            |
| 20                                          | RPNA 20/35           | 62                     | 20                                 | 35 | 16         | 30.5 | 0.8                    | 12 350                                              | 16 600                                          | 21 000                            |
| 25                                          | RPNA 25/42           | 109                    | 25                                 | 42 | 20         | 36.5 | 0.8                    | 17 800                                              | 29 000                                          | 18 000                            |
| 28                                          | RPNA 28/44           | 112                    | 28                                 | 44 | 20         | 38.5 | 0.8                    | 20 900                                              | 32 300                                          | 16 000                            |
| 30                                          | RPNA 30/47           | 125                    | 30                                 | 47 | 20         | 42   | 0.8                    | 21 500                                              | 34 200                                          | 15 000                            |
| 35                                          | RPNA 35/52           | 131                    | 35                                 | 52 | 20         | 47.5 | 0.8                    | 23 100                                              | 39 400                                          | 13 000                            |
| 40                                          | RPNA 40/55           | 141                    | 40                                 | 55 | 20         | 50.5 | 0.8                    | 24 700                                              | 44 650                                          | 11 000                            |
| 45                                          | RPNA 45/62           | 176                    | 45                                 | 62 | 20         | 58   | 0.8                    | 26 100                                              | 50 350                                          | 10 000                            |

## ALIGNING NEEDLE ROLLER BEARING WITH INNER RING (PNA) CUSCINETTI ORIENTABILI A RULLINI CON ANELLO INTERNO (PNA)

## PNA

| Diametro albero (mm)<br>Shaft Diameter (mm) | Sigla<br>Designation | Peso (g)<br>Weight (g) | Dimensioni (mm)<br>Dimensions (mm) |    |    |    |            |      |                        |                         |     | Coefficienti di carico (N)<br>Basic Load Rating (N) |                                                 | Velocità limite<br>Limiting Speed |
|---------------------------------------------|----------------------|------------------------|------------------------------------|----|----|----|------------|------|------------------------|-------------------------|-----|-----------------------------------------------------|-------------------------------------------------|-----------------------------------|
|                                             |                      |                        | d                                  | F  | D  | B  | C<br>± 0,5 | D1   | r <sub>s</sub><br>min. | r <sub>1s</sub><br>min. | §1  | Dinamico C<br>Dynamic C                             | Statico C <sub>0</sub><br>Static C <sub>0</sub> |                                   |
| 12                                          | PNA 12/28            | 37                     | 12                                 | 15 | 28 | 12 | 12         | 24.5 | 0.8                    | 0.3                     | 0.5 | 6 500                                               | 7 500                                           | 24 000                            |
| 15                                          | PNA 15/32            | 62                     | 15                                 | 18 | 32 | 16 | 16         | 27   | 0.8                    | 0.3                     | 0.5 | 11 900                                              | 15 400                                          | 22 000                            |
| 17                                          | PNA 17/35            | 73                     | 17                                 | 20 | 35 | 16 | 16         | 30.5 | 0.8                    | 0.3                     | 0.5 | 12 350                                              | 16 600                                          | 21 000                            |
| 20                                          | PNA 20/42            | 136                    | 20                                 | 25 | 42 | 20 | 20         | 36.5 | 0.8                    | 0.3                     | 0.5 | 17 800                                              | 29 000                                          | 18 000                            |
| 22                                          | PNA 22/44            | 145                    | 22                                 | 28 | 44 | 20 | 20         | 38.5 | 0.8                    | 0.3                     | 0.5 | 20 900                                              | 32 300                                          | 16 000                            |
| 25                                          | PNA 25/47            | 157                    | 25                                 | 30 | 47 | 20 | 20         | 42   | 0.8                    | 0.3                     | 0.5 | 21 500                                              | 34 200                                          | 15 000                            |
| 30                                          | PNA 30/52            | 181                    | 30                                 | 35 | 52 | 20 | 20         | 47.5 | 0.8                    | 0.3                     | 0.5 | 23 100                                              | 39 400                                          | 13 000                            |
| 35                                          | PNA 35/55            | 177                    | 35                                 | 40 | 55 | 20 | 20         | 50.5 | 0.8                    | 0.3                     | 0.5 | 24 700                                              | 44 650                                          | 11 000                            |
| 40                                          | PNA 40/62            | 227                    | 40                                 | 45 | 62 | 20 | 20         | 58   | 0.8                    | 0.3                     | 0.5 | 26 100                                              | 50 350                                          | 10 000                            |

1) Scostamento assiale ammesso dell'anello interno, dalla posizione intermedia.  
Axial deviation allowed of inner ring from intermediate position.

2) Per lubrificazione a grasso è consentito un numero di giri pari al 60% dei valori indicati.  
For grease lubrication, revolutions allowed are 60% of indicated value.