



## SKF NKI 90/26

Single row needle roller bearing with machined rings, with flanges

Single row needle roller bearings incorporate cylindrical rollers that are small in diameter relative to their length. Owing to their large number of rollers, the bearings have a high load carrying capacity. The outer ring includes two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

### Technical specifications

| Dimensions                                                                                        |        |
|---------------------------------------------------------------------------------------------------|--------|
| Bore diameter                                                                                     | 90 mm  |
| Outside diameter                                                                                  | 120 mm |
| Width                                                                                             | 26 mm  |
| Raceway diameter inner ring                                                                       | 100 mm |
| Chamfer dimension outer ring                                                                      | 1 mm   |
| Permissible axial displacement from the normal position of one bearing ring relative to the other | 1.5 mm |

| Abutment dimensions                                                 |        |
|---------------------------------------------------------------------|--------|
| Smallest permissible abutment diameter shaft, bearings with flanges | 95 mm  |
| Diameter of housing abutment                                        | 115 mm |
| Fillet radius                                                       | 1 mm   |

| Calculation data          |            |
|---------------------------|------------|
| Basic dynamic load rating | 76.5 kN    |
| Basic static load rating  | 156 kN     |
| Fatigue load limit        | 19.6 kN    |
| Reference speed           | 4000 r/min |
| Limiting speed            | 4500 r/min |

| Performance               |            |
|---------------------------|------------|
| Basic dynamic load rating | 76.5 kN    |
| Basic static load rating  | 156 kN     |
| Reference speed           | 4000 r/min |
| Limiting speed            | 4500 r/min |

| Properties                                  |                        |
|---------------------------------------------|------------------------|
| Bearing part                                | Complete bearing       |
| Number of rows                              | 1                      |
| Outer ring type                             | Machined (solid)       |
| Aligning feature                            | Without                |
| Cage                                        | Sheet metal            |
| Number of flanges, outer ring               | 2                      |
| Radial internal clearance                   | CN                     |
| Tolerance class                             | Normal                 |
| Material, bearing                           | Bearing steel          |
| Coating                                     | Without                |
| Sealing                                     | Without                |
| Lubricant                                   | None                   |
| Relubrication feature                       | With                   |
| Indicative carbon footprint for new product | 2.8 kg CO <sub>2</sub> |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 0.778 kg    |
| eClass code        | 23-05-09-03 |
| UNSPSC code        | 31171512    |

**SKF drawings**

