



SKF NA 4909

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 | 45 mm |
| Outside diameter | 68 mm |
| Width | 22 mm |
| Raceway diameter inner ring | 52 mm |
| Chamfer dimension outer ring | 0.6 mm |
| Permissible axial displacement from the normal position of one bearing ring relative to the other | 1 mm |

| Abutment dimensions | |
|---|--------|
| Smallest permissible abutment diameter shaft, bearings with flanges | 49 mm |
| Diameter of housing abutment | 64 mm |
| Fillet radius | 0.6 mm |

| Calculation data | |
|---------------------------|--------------|
| SKF performance class | SKF Explorer |
| Basic dynamic load rating | 52 kN |
| Basic static load rating | 78 kN |
| Fatigue load limit | 10 kN |
| Reference speed | 7500 r/min |
| Limiting speed | 8500 r/min |

| Performance | |
|---------------------------|--------------|
| Basic dynamic load rating | 52 kN |
| Basic static load rating | 78 kN |
| Reference speed | 7500 r/min |
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| 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 | 0.98 kg CO ₂ e |

| Logistics | |
|--------------------|----------|
| Product net weight | 0.271 kg |

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|-------------|-------------|
| eClass code | 23-05-09-03 |
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SKF drawings

