

SA 50 ES-2RS Rod end



Rod end

SKF rod ends consist of an eye-shaped head with an integral shank that forms a housing for a spherical plain bearing. These rod ends are used in applications such as hydraulic cylinders, steering links, tie rods, or anywhere a precision articulation joint is required. SKF provides both rod ends that require maintenance and rod ends that are maintenance-free.

- Bearing housing combination for simple installation
- Various designs for individual assemblies
- Many sliding contact surface combinations
- Available with female or male left- or right-hand thread or with a welding shank

Overview

Dimensions

| | |
|--|--------|
| Bore diameter, bearing inner ring | 50 mm |
| Outside diameter, housing eye | 114 mm |
| Width, bearing inner ring | 35 mm |
| Thread designation | M 52x3 |
| Width, housing eye | 31 mm |
| Centre height, housing (from end of shank) | 195 mm |
| Housing length, total | 254 mm |

Performance

| | |
|---------------------------|--------|
| Basic dynamic load rating | 156 kN |
| Basic static load rating | 245 kN |

Properties

| | |
|-------------------------------------|------------------------|
| Sliding contact surface combination | Steel/steel, standard |
| Material, housing | Steel |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Maintenance | Relubrication required |
| Attachment feature, rod end shank | Right-hand male thread |
| Sealing | Seal on both sides |
| Sealing type | Double-lip |

Technical Specification

| | |
|-------------------------------------|------------------------|
| Maintenance | Relubrication required |
| Sliding contact surface combination | Steel/steel, standard |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Sealing | Seal on both sides |
| Sealing type | Double-lip |
| Attachment feature, rod end shank | Right-hand male thread |

Dimensions



| | | |
|----------------|-------------|---|
| d | 50 mm | Bore diameter |
| d ₂ | max. 114 mm | Diameter head |
| B | 35 mm | Width inner ring |
| G | M 52x3 | Thread |
| C ₁ | max. 31 mm | Width head |
| h | 195 mm | Height shank end face - centre rod end eye |
| α | 6 ° | Angle of tilt |
| d _k | 66 mm | Raceway diameter inner ring |
| l ₁ | min. 110 mm | Length thread |
| l ₂ | max. 254 mm | Length (height) housing |
| l ₇ | min. 58 mm | Distance shank chamfer - centre rod end eye |
| r ₁ | min. 0.6 mm | Chamfer dimension bore |

Calculation data

| | | |
|------------------------------|----------------|-----------------------|
| Basic dynamic load rating | C | 156 kN |
| Basic static load rating | C ₀ | 245 kN |
| Specific dynamic load factor | K | 100 N/mm ² |
| Material constant | K _M | 330 |

Mass

| | |
|--------------|--------|
| Mass rod end | 3.9 kg |
|--------------|--------|

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