

SI 12 CRod 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 | 12 mm |
| Outside diameter, housing eye | 35 mm |
| Width, bearing inner ring | 10 mm |
| Thread designation | M 12 |
| Width, housing eye | 8.5 mm |
| Centre height, housing (from end of shank) | 50 mm |
| Housing length, total | 69 mm |

Performance

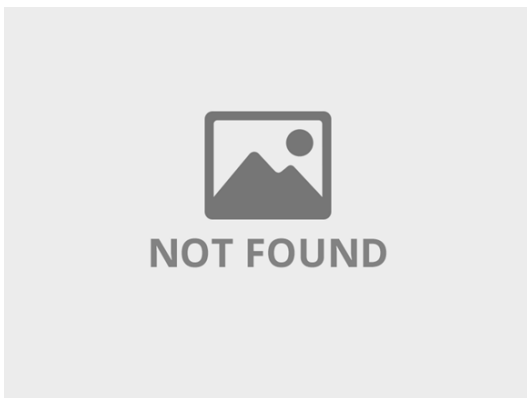
| | |
|---------------------------|---------|
| Basic dynamic load rating | 11.4 kN |
| Basic static load rating | 25.5 kN |

Properties

| | |
|-------------------------------------|----------------------------|
| Sliding contact surface combination | Steel/PTFE sintered bronze |
| Material, housing | Steel |
| Material, inner ring | Bearing steel |
| Material, outer ring | Deep-drawing steel |
| Maintenance | Maintenance-free |
| Attachment feature, rod end shank | Right-hand female thread |
| Sealing | Without |

Technical Specification

| | |
|-------------------------------------|----------------------------|
| Maintenance | Maintenance-free |
| Sliding contact surface combination | Steel/PTFE sintered bronze |
| Material, inner ring | Bearing steel |
| Material, outer ring | Deep-drawing steel |
| Sealing | Without |
| Attachment feature, rod end shank | Right-hand female thread |



Dimensions

| | | |
|----------------|-------------|---|
| d | 12 mm | Bore diameter |
| d ₂ | max. 35 mm | Diameter head |
| B | 10 mm | Width inner ring |
| G | M 12 | Thread |
| C ₁ | max. 8.5 mm | Width head |
| h ₁ | 50 mm | Height shank end face - centre rod end eye |
| α | 10 ° | Angle of tilt |
| d _k | 18 mm | Raceway diameter inner ring |
| d ₄ | ≈ 19 mm | Diameter shank |
| l ₃ | min. 18 mm | Length thread |
| l ₄ | max. 69 mm | Length (height) housing |
| l ₅ | ≈ 12 mm | Length wrench flat |
| l ₇ | min. 17 mm | Distance shank chamfer - centre rod end eye |
| w | 17 mm | Size wrench |
| r ₁ | min. 0.3 mm | Chamfer dimension bore |

Calculation data

| | | |
|------------------------------|-------|-----------------------|
| Basic dynamic load rating | C | 11.4 kN |
| Basic static load rating | C_0 | 25.5 kN |
| Specific dynamic load factor | K | 100 N/mm ² |
| Material constant | K_M | 1 400 |

Mass

| | | |
|--------------|--|---------|
| Mass rod end | | 0.11 kg |
|--------------|--|---------|

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