



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	440 kN
Basic static load rating	245 kN

Properties

Sliding contact surface combination	Steel/PTFE fabric
Material, housing	Steel
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Maintenance-free
Attachment feature, rod end shank	Left-hand male thread
Sealing	Seal on both sides
Sealing type	Triple-lip

Technical Specification

Maintenance	Maintenance-free
Sliding contact surface combination	Steel/PTFE fabric
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Seal on both sides
Sealing type	Triple-lip
Attachment feature, rod end shank	Left-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	440 kN
Basic static load rating	C ₀	245 kN
Specific dynamic load factor	K	300 N/mm ²

Mass

Mass rod end		3.9 kg
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