

SIL 10 ERod 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	10 mm
Outside diameter, housing eye	30 mm
Width, bearing inner ring	9 mm
Thread designation	M 10
Width, housing eye	7.5 mm
Centre height, housing (from end of shank)	43 mm
Housing length, total	60 mm

Performance

Basic dynamic load rating	8.15 kN
Basic static load rating	19 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	Left-hand female thread
Sealing	Without

Technical Specification

Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Without
Attachment feature, rod end shank	Left-hand female thread



Dimensions

d	10 mm	Bore diameter
d ₂	max. 30 mm	Diameter head
B	9 mm	Width inner ring
G	M 10	Thread
C ₁	max. 7.5 mm	Width head
h ₁	43 mm	Height shank end face - centre rod end eye
α	12 °	Angle of tilt
d _k	16 mm	Raceway diameter inner ring
d ₄	≈ 16 mm	Diameter shank
l ₃	min. 15 mm	Length thread
l ₄	max. 60 mm	Length (height) housing
l ₅	≈ 11 mm	Length wrench flat
l ₇	min. 14 mm	Distance shank chamfer - centre rod end eye
w	14 mm	Size wrench
r ₁	min. 0.3 mm	Chamfer dimension bore

Calculation data

Basic dynamic load rating	C	8.15 kN
Basic static load rating	C ₀	19 kN
Specific dynamic load factor	K	100 N/mm ²
Material constant	K _M	330

Mass

Mass rod end		0.069 kg
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