

# SAL 20 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	20 mm
Outside diameter, housing eye	54 mm
Width, bearing inner ring	16 mm
Thread designation	M 20x1.5
Width, housing eye	13.5 mm
Centre height, housing (from end of shank)	78 mm
Housing length, total	107 mm

## Performance

Basic dynamic load rating	31.5 kN
Basic static load rating	51 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	Left-hand male 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	Left-hand male thread



## Dimensions

d	20 mm	Bore diameter
$d_2$	max. 54 mm	Diameter head
B	16 mm	Width inner ring
G	M 20x1.5	Thread
$C_1$	max. 13.5 mm	Width head
h	78 mm	Height shank end face - centre rod end eye
$\alpha$	9 °	Angle of tilt
$d_k$	29 mm	Raceway diameter inner ring
$l_1$	min. 43 mm	Length thread
$l_2$	max. 107 mm	Length (height) housing
$l_7$	min. 24 mm	Distance shank chamfer - centre rod end eye
$r_1$	min. 0.3 mm	Chamfer dimension bore

## Calculation data

Basic dynamic load rating	C	31.5 kN
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Basic static load rating	$C_0$	51 kN
Specific dynamic load factor	K	100 N/mm <sup>2</sup>
Material constant	$K_M$	1 400

## Mass

Mass rod end		0.32 kg
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