

Image may differ from product. See technical specification for details.

SIR 50 ES

Rod end, requires maintenance, female thread with clamping screws

These SKF rod ends contain a spherical plain bearing with a steel/steel sliding contact surface combination. The bearing requires maintenance and can be relubricated via grease fitting in the housing and via the shaft. The female thread is available with a left- (prefix SIL) or right-hand thread.

- Easy to relubricate
- Suitable for heavy static, alternating or impact loads
- Simple and ready-to-mount
- Slotted shank with clamping screws
- Suitable for hydraulic cylinders
- Bearing can be exchanged

Overview

Dimensions

Bore diameter, bearing inner ring	50 mm
Outside diameter, housing eye	118 mm
Width, bearing inner ring	35 mm
Thread designation	M 45x1.5
Width, housing eye	40.5 mm
Centre height, housing (from end of shank)	105 mm
Housing length, total	169 mm

Performance

Basic dynamic load rating	156 kN
Basic static load rating	280 kN

Properties

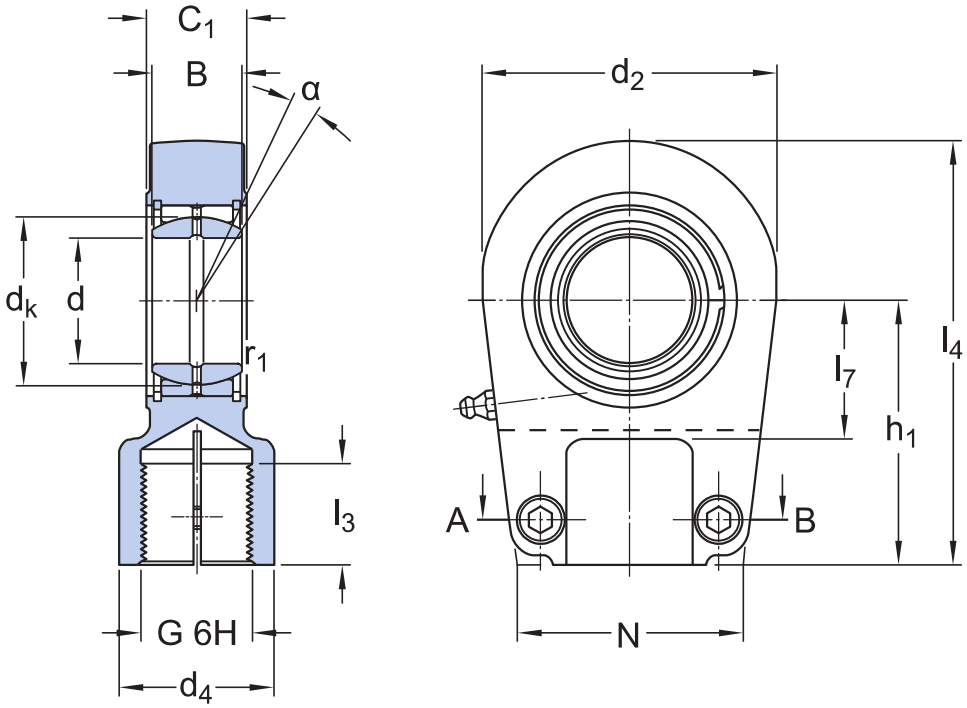
Sliding contact surface combination	Steel/steel, standard
Material, housing	Steel
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Attachment feature, rod end shank	Right-hand female thread and clamping screws
Sealing	Without

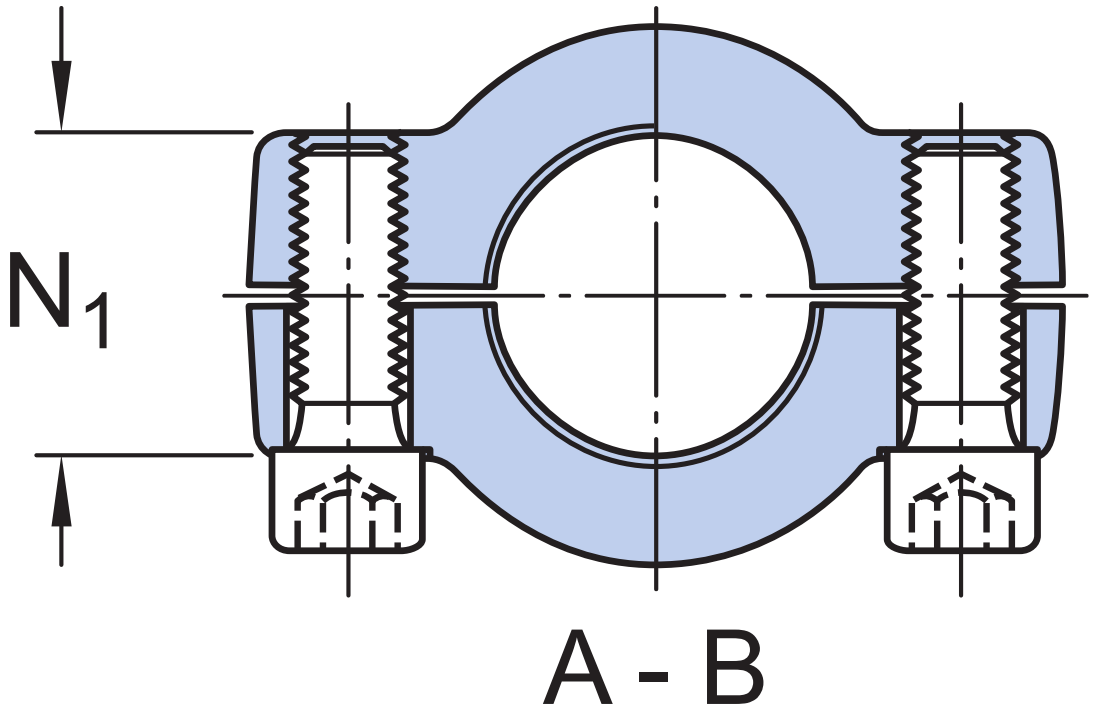
Logistics

Product net weight	3.6 kg
eClass code	23-05-01-05
UNSPSC code	31171508

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	Right-hand female thread and clamping screws





Dimensions

d	50 mm	Bore diameter
d_2	max. 118 mm	Diameter head
B	35 mm	Width inner ring
G	M 45x1.5	Thread
C_1	max. 40.5 mm	Width head
h_1	105 mm	Height shank end face - centre rod end eye
α	6 °	Angle of tilt
d_k	66 mm	Raceway diameter inner ring
d_4	max. 62.5 mm	Housing diameter shank
l_3	min. 46 mm	Length thread
l_4	max. 169 mm	Length (height) housing
l_7	min. 54 mm	Distance shank chamfer - centre rod end eye
N	max. 90 mm	Width shank
N_1	max. 38 mm	Thickness shank base for clamping bolts
r_1	min. 0.6 mm	Chamfer dimension bore

Bolts with internal hexagon

Size bolt with internal hexagon	M 12
Tightening torque bolt with internal hexagon	84 N·m

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	280 kN
Specific dynamic load factor	K	100 N/mm^2
Material constant	K_M	330

Tolerances and clearances

- General bearing specifications

More Information

Product details

- Rod ends bearings requiring maintenance
- Maintenance-free rod ends
- General rod end specifications
- Temperature limits

Engineering information

- Principles of selection

Tools

- SKF Product select

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