



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

## GE 70 ES

### Radial spherical plain bearing, requiring maintenance, metric sizes

Radial spherical plain bearings are designed to accommodate radial and combined radial and axial loads, and also misalignment. This specific design includes a steel/steel sliding contact surface combination. The bearings require maintenance and can be relubricated via lubrication holes and an annular groove in both rings.

- Designed for radial and combined radial and axial loads
- Suitable for heavy static, alternating or impact loads

# Overview

## Dimensions

Bore diameter	70 mm
Outside diameter	105 mm
Width, inner ring	49 mm
Width, outer ring	40 mm

## Performance

Basic dynamic load rating	315 kN
Basic static load rating	1 560 kN

## Properties

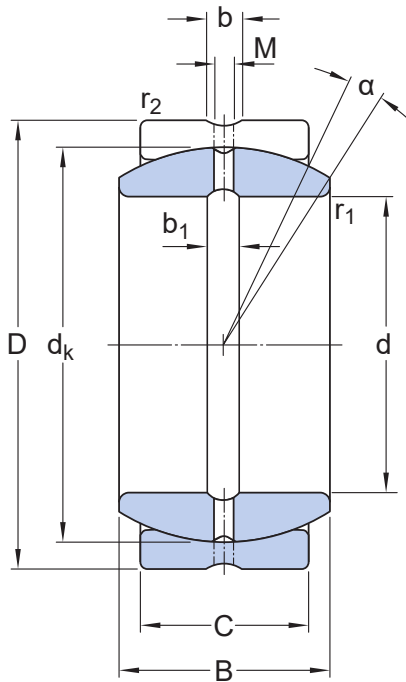
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Without
Relubrication feature	With

## Logistics

Product net weight	1.52 kg
eClass code	23-05-01-06
UNSPSC code	31171515

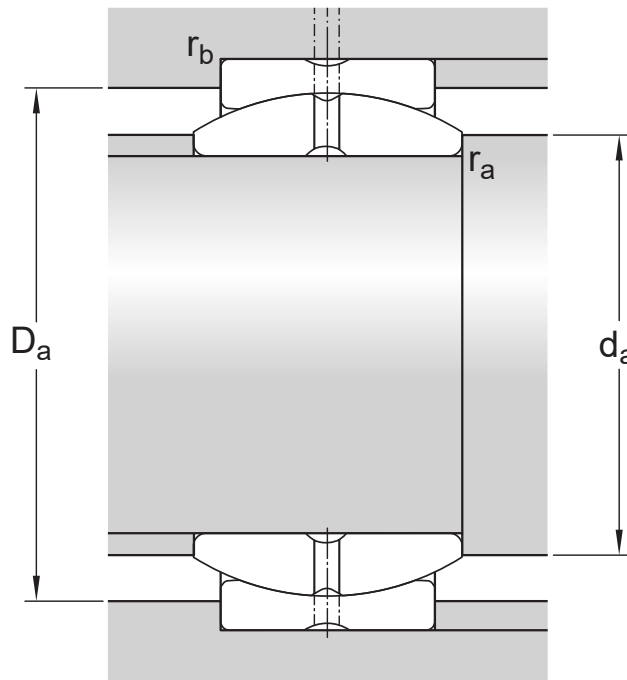
# Technical specification

Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Without



## Dimensions

d	70 mm	Bore diameter
D	105 mm	Outside diameter
B	49 mm	Width
C	40 mm	Width outer ring
α	6 °	Angle of tilt
d <sub>k</sub>	92 mm	Raceway diameter inner ring
b	7.6 mm	Width annular lubrication groove at outer ring
b <sub>1</sub>	7.6 mm	Width annular lubrication groove at inner ring
M	4 mm	Diameter lubrication hole (outer ring)
r <sub>1</sub>	min. 1 mm	Chamfer dimension bore
r <sub>2</sub>	min. 1 mm	Chamfer dimension outer ring



## Abutment dimensions

$d_a$	min. 76.7 mm	Abutment diameter shaft
$d_a$	max. 77.9 mm	Abutment diameter shaft
$D_a$	min. 87.4 mm	Abutment diameter housing
$D_a$	max. 99 mm	Abutment diameter housing
$r_a$	max. 1 mm	Fillet radius shaft
$r_b$	max. 1 mm	Fillet radius housing

## Calculation data

Basic dynamic load rating	C	315 kN
Basic static load rating	$C_0$	1 560 kN
Specific dynamic load factor	K	100 N/mm <sup>2</sup>
Specific static load factor	$K_0$	500 N/mm <sup>2</sup>
Material constant	$K_M$	330




## Tolerances and clearances

- [General bearing specifications](#)

## RADIAL LOCATION OF BEARINGS

- [Recommended fits](#)

# More Information

<div> <b>Product details</b></div> <div><a href="#">Radial spherical plain bearings requiring maintenance</a></div> <div><a href="#">Maintenance-free radial spherical plain bearings</a></div> <div><a href="#">General bearing specifications</a></div> <div><a href="#">Temperature limits</a></div>	<div> <b>Engineering information</b></div> <div><a href="#">Principles of selection</a></div>	<div> <b>Tools</b></div> <div><a href="#">SKF Product select</a></div> <div><a href="#">Heater selection tool</a></div>
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