



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

GE 50 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	50 mm
Outside diameter	75 mm
Width, inner ring	35 mm
Width, outer ring	28 mm

Performance

Basic dynamic load rating	156 kN
Basic static load rating	780 kN

Properties

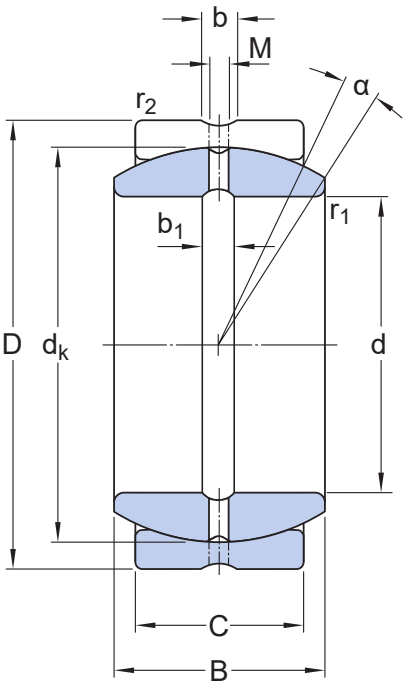
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Without
Relubrication feature	With

Logistics

Product net weight	0.546 kg
eClass code	23-05-01-06
UNSPSC code	31171515

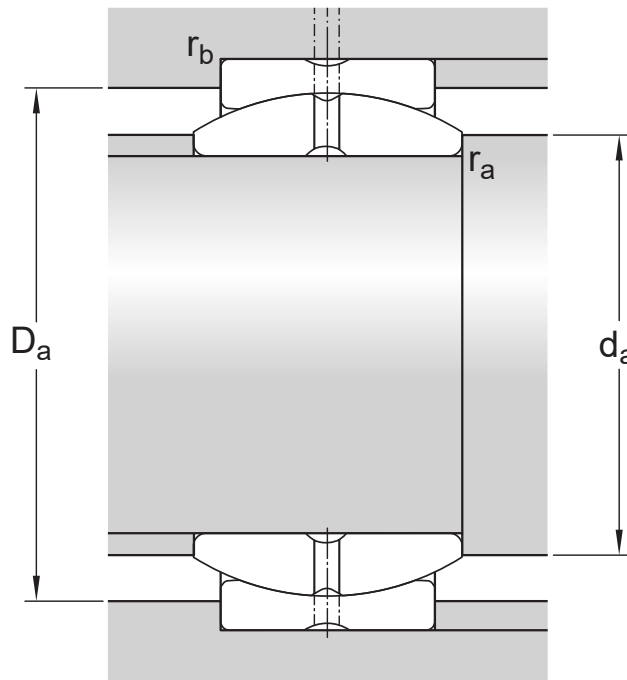
Technical specification

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



Dimensions

d	50 mm	Bore diameter
D	75 mm	Outside diameter
B	35 mm	Width
C	28 mm	Width outer ring
α	6 °	Angle of tilt
d_k	66 mm	Raceway diameter inner ring
b	4.6 mm	Width annular lubrication groove at outer ring
b_1	4.8 mm	Width annular lubrication groove at inner ring
M	3 mm	Diameter lubrication hole (outer ring)
r_1	min. 0.6 mm	Chamfer dimension bore
r_2	min. 1 mm	Chamfer dimension outer ring



Abutment dimensions

d_a	min. 54.6 mm	Abutment diameter shaft
d_a	max. 56 mm	Abutment diameter shaft
D_a	min. 62.7 mm	Abutment diameter housing
D_a	max. 70.5 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius shaft
r_b	max. 1 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	C	156 kN
Basic static load rating	C_0	780 kN
Specific dynamic load factor	K	100 N/mm ²
Specific static load factor	K_0	500 N/mm ²
Material constant	K_M	330




Tolerances and clearances

- [General bearing specifications](#)

RADIAL LOCATION OF BEARINGS

- [Recommended fits](#)

More Information

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