



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

GE 45 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	45 mm
Outside diameter	68 mm
Width, inner ring	32 mm
Width, outer ring	25 mm

Performance

Basic dynamic load rating	127 kN
Basic static load rating	640 kN

Properties

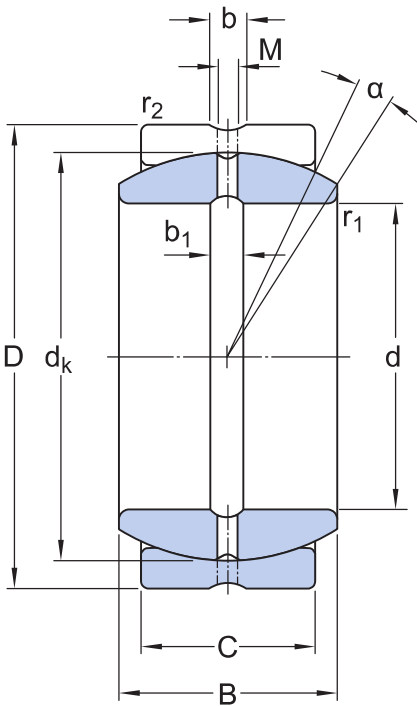
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Without
Relubrication feature	With

Logistics

Product net weight	0.409 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

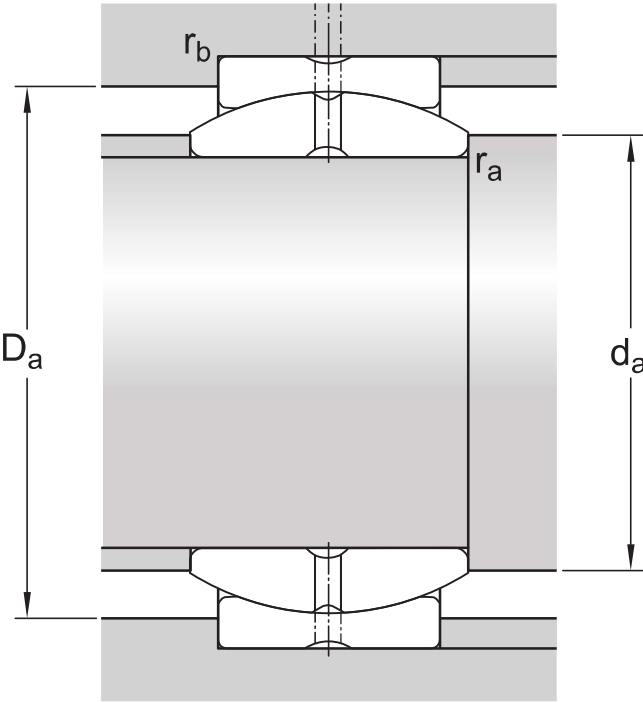
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Without



Dimensions

d	45 mm	Bore diameter
D	68 mm	Outside diameter
B	32 mm	Width
C	25 mm	Width outer ring
α	7 °	Angle of tilt
d_k	60 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. 49.4 mm	Abutment diameter shaft
d _a	max. 50.8 mm	Abutment diameter shaft
D _a	min. 57 mm	Abutment diameter housing
D _a	max. 63.6 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	127 kN
Basic static load rating	C ₀	640 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

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