

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

GE 180 ES-2RS

Radial spherical plain bearing, requiring maintenance, sealed, 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 and a double-lip contact seal on both sides. 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
- Long service life
- Minimal maintenance
- Suitable for heavy static, alternating or impact loads

Overview

Dimensions

Bore diameter	180 mm
Outside diameter	260 mm
Width, inner ring	105 mm
Width, outer ring	80 mm

Performance

Basic dynamic load rating	1 530 kN
Basic static load rating	7 650 kN

Properties

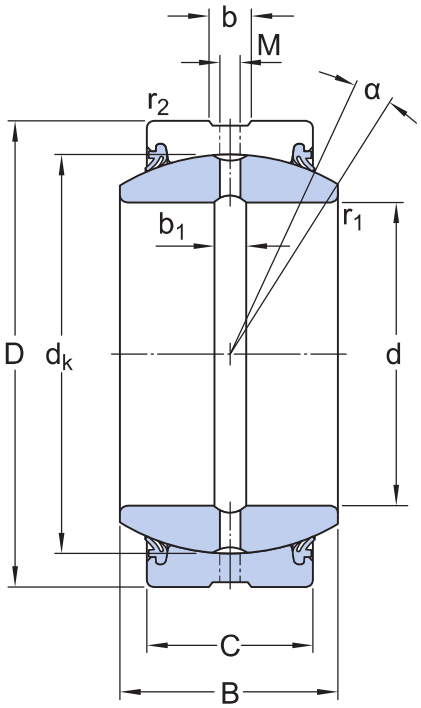
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Seal on both sides
Sealing type	Double-lip
Relubrication feature	With

Logistics

Product net weight	17.9 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

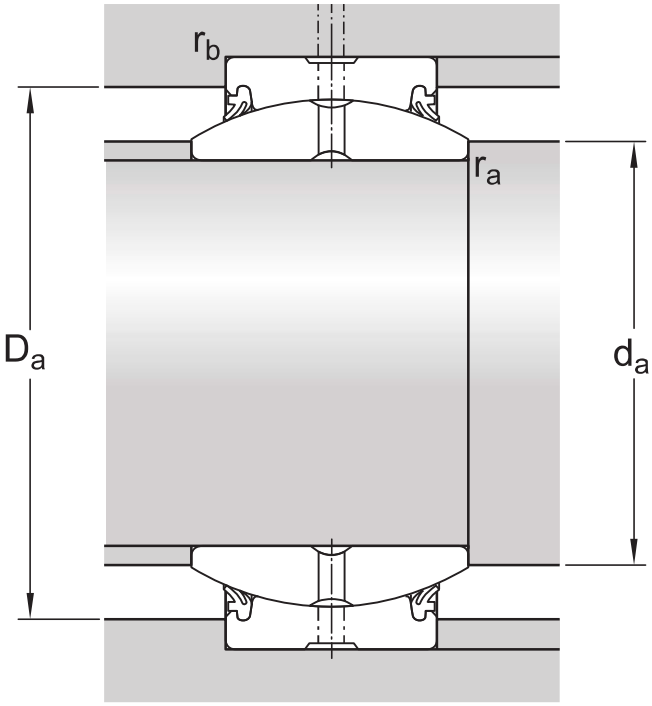
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Seal on both sides
Sealing type	Double-lip



Dimensions

d	180 mm	Bore diameter
D	260 mm	Outside diameter
B	105 mm	Width
C	80 mm	Width outer ring
α	6 °	Angle of tilt
d_k	225 mm	Raceway diameter inner ring
b	13.5 mm	Width annular lubrication groove at outer ring

b_1	13.5 mm	Width annular lubrication groove at inner ring
M	6 mm	Diameter lubrication hole (outer ring)
r_1	min. 1.1 mm	Chamfer dimension bore
r_2	min. 1.1 mm	Chamfer dimension outer ring



Abutment dimensions

d_a	min. 191 mm	Abutment diameter shaft
d_a	max. 199 mm	Abutment diameter shaft
D_a	min. 224.5 mm	Abutment diameter housing
D_a	max. 250.5 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	1 530 kN
Basic static load rating	C_0	7 650 kN
Specific dynamic load factor	K	100 N/mm²

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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