



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

GEG 100 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 and an extended inner ring. 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
- Extended inner ring can save spacer rings

Overview

Dimensions

| | |
|-------------------|--------|
| Bore diameter | 100 mm |
| Outside diameter | 150 mm |
| Width, inner ring | 100 mm |
| Width, outer ring | 55 mm |

Performance

| | |
|---------------------------|----------|
| Basic dynamic load rating | 610 kN |
| Basic static load rating | 3 050 kN |

Properties

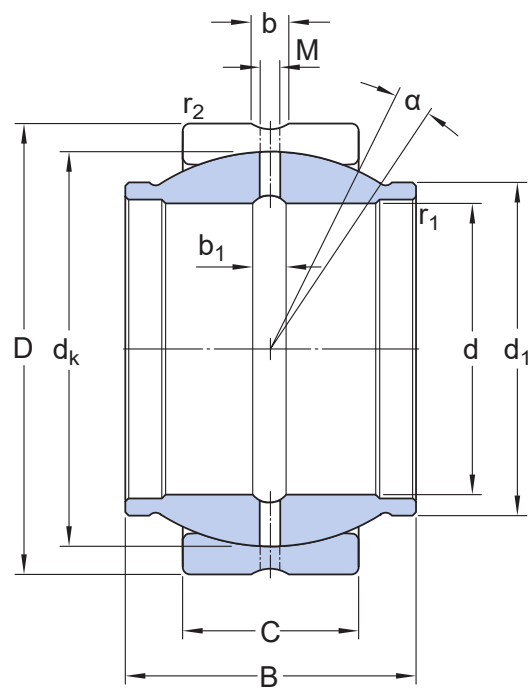
| | |
|-------------------------------------|------------------------|
| Sliding contact surface combination | Steel/steel, standard |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Maintenance | Relubrication required |
| Radial internal clearance | CN |
| Sealing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

Logistics

| | |
|--------------------|-------------|
| Product net weight | 4.75 kg |
| eClass code | 23-05-01-06 |
| UNSPSC code | 31171515 |

Technical specification

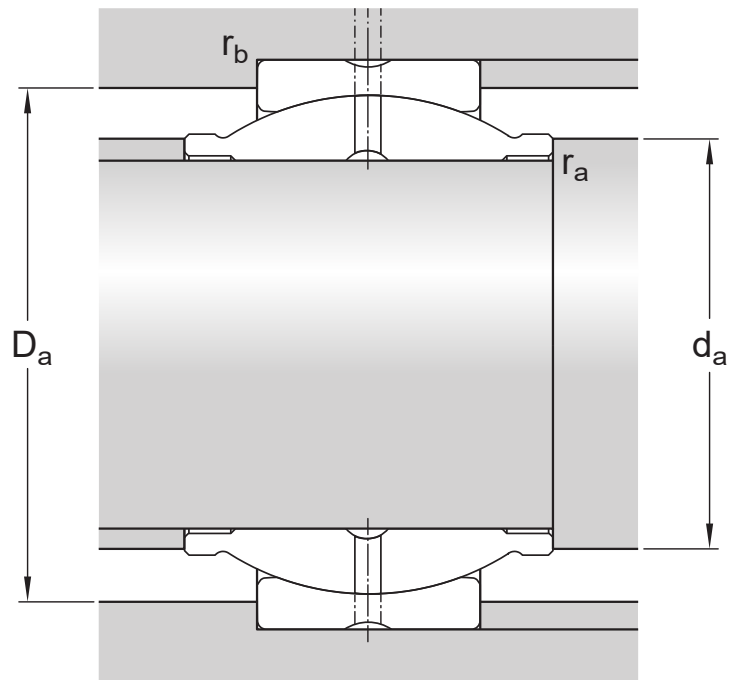
| | |
|-------------------------------------|------------------------|
| Maintenance | Relubrication required |
| Sliding contact surface combination | Steel/steel, standard |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Sealing | Without |



Dimensions

| | | |
|----------------|----------|--|
| d | 100 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 100 mm | Width |
| C | 55 mm | Width outer ring |
| α | 4 ° | Angle of tilt |
| d _k | 130 mm | Raceway diameter inner ring |
| d ₁ | ≈ 113 mm | Shoulder diameter cylindrical extension inner ring |
| b | 11.5 mm | Width annular lubrication groove at outer ring |
| b ₁ | 11.5 mm | Width annular lubrication groove at inner ring |
| M | 5 mm | Diameter lubrication hole (outer ring) |

| | | |
|-------|-----------|------------------------------|
| r_1 | min. 1 mm | Chamfer dimension bore |
| r_2 | min. 1 mm | Chamfer dimension outer ring |



Abutment dimensions

| | | |
|-------|---------------|---------------------------|
| d_a | min. 110.1 mm | Abutment diameter shaft |
| d_a | max. 113 mm | Abutment diameter shaft |
| D_a | min. 123.5 mm | Abutment diameter housing |
| D_a | max. 143.2 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 | 610 kN |
| Basic static load rating | C_0 | 3 050 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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