

GE 100 ESRadial spherical plain bearing, requiring maintenance, metric sizes



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 | 100 mm |
| Outside diameter | 150 mm |
| Width, inner ring | 70 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 |

Technical Specification

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

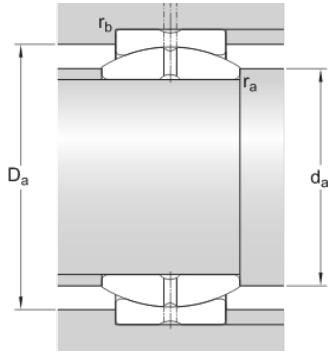


Dimensions

| | | |
|----------|-----------|--|
| d | 100 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| B | 70 mm | Width |
| C | 55 mm | Width outer ring |
| α | 7 ° | Angle of tilt |
| d_k | 130 mm | Raceway diameter 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. 107.8 mm | Abutment diameter shaft |
| d_a | max. 109.5 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 |

Mass

| | |
|--------------------|--------|
| Mass plain bearing | 4.4 kg |
|--------------------|--------|

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