



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

## GEZ 112 ES-2RS

**Radial spherical plain bearing, requiring maintenance, sealed, inch 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     | 44.45 mm  |
| Outside diameter  | 71.438 mm |
| Width, inner ring | 38.887 mm |
| Width, outer ring | 33.325 mm |

Performance

|                           |        |
|---------------------------|--------|
| Basic dynamic load rating | 170 kN |
| Basic static load rating  | 510 kN |

Properties

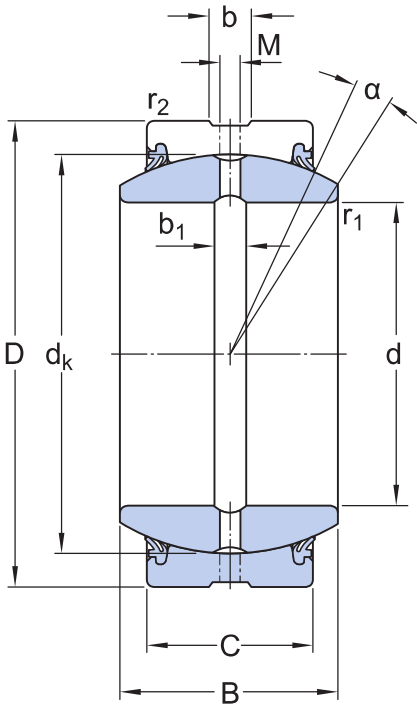
|                                     |                        |
|-------------------------------------|------------------------|
| Sliding contact surface combination | Steel/steel, standard  |
| Material, inner ring                | Bearing steel          |
| Material, outer ring                | Bearing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

Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.615 kg    |
| eClass code        | 23-05-01-06 |
| UNSPSC code        | 31171515    |

Technical specification

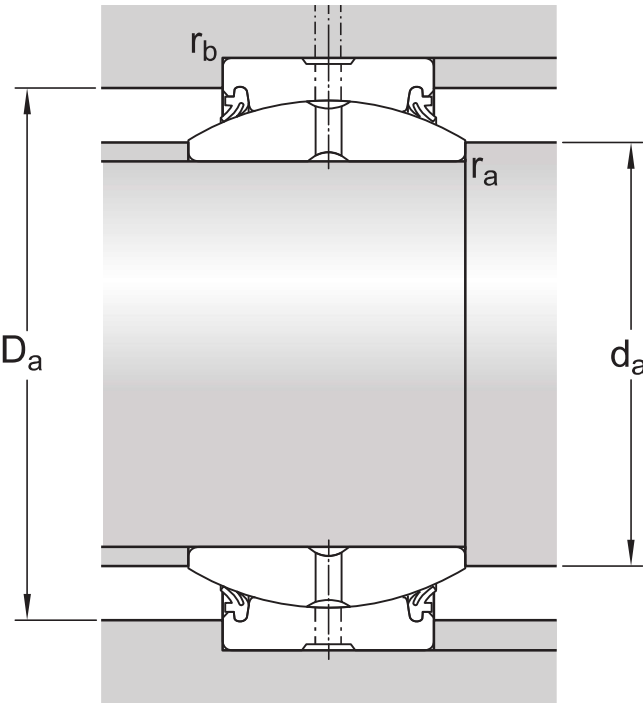
|                                     |                        |
|-------------------------------------|------------------------|
| Maintenance                         | Relubrication required |
| Sliding contact surface combination | Steel/steel, standard  |
| Material, inner ring                | Bearing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



Dimensions

|          |           |                                                |
|----------|-----------|------------------------------------------------|
| d        | 44.45 mm  | Bore diameter                                  |
| D        | 71.438 mm | Outside diameter                               |
| B        | 38.887 mm | Width                                          |
| C        | 33.325 mm | Width outer ring                               |
| $\alpha$ | 6 °       | Angle of tilt                                  |
| $d_k$    | 63.881 mm | Raceway diameter inner ring                    |
| b        | 4.4 mm    | Width annular lubrication groove at outer ring |

|       |             |                                                |
|-------|-------------|------------------------------------------------|
| $b_1$ | 5 mm        | Width annular lubrication groove at inner ring |
| M     | 4 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. 48.5 mm | Abutment diameter shaft   |
| $d_a$ | max. 50.7 mm | Abutment diameter shaft   |
| $D_a$ | min. 61.3 mm | Abutment diameter housing |
| $D_a$ | max. 67.4 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     | 170 kN                |
| Basic static load rating     | $C_0$ | 510 kN                |
| Specific dynamic load factor | K     | 100 N/mm <sup>2</sup> |

|                             |       |                       |
|-----------------------------|-------|-----------------------|
| Specific static load factor | $K_0$ | 300 N/mm <sup>2</sup> |
| Material constant           | $K_M$ | 330                   |

Tolerances and clearances

- [General bearing specifications](#)

## RADIAL LOCATION OF BEARINGS

- [Recommended fits](#)

More Information

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