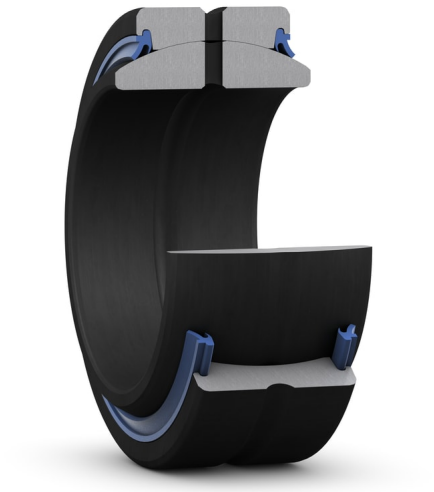


# GE 30 ES-2RS

## 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 | 30 mm |
| Outside diameter | 47 mm |
| Width, inner ring | 22 mm |
| Width, outer ring | 18 mm |

### Properties

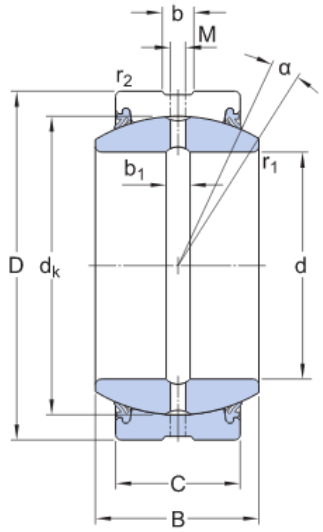
| | |
|---|---|
| Maintenance | Relubrication required |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Radial internal clearance | CN |
| Relubrication feature | With |
| Sealing | Seal on both sides |
| Sealing type | Double-lip |
| Sliding contact surface combination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

### Performance

| | |
|---|---|
| Basic dynamic load rating | 62 kN |
| Basic static load rating | 310 kN |

# 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 |

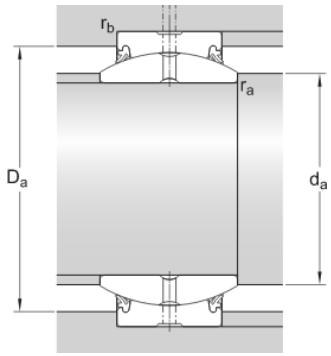



## Dimensions

| | | |
|---|---|---|
| d | 30 mm | Bore diameter |
| D | 47 mm | Outside diameter |
| B | 22 mm | Width |
| C | 18 mm | Width outer ring |
| α | 6 ° | Angle of tilt |
| $d_k$ | 40.7 mm | Raceway diameter inner ring |
| b | 3.1 mm | Width annular lubrication groove at outer ring |
| $b_1$ | 3.2 mm | Width annular lubrication groove at inner ring |
| M | 2 mm | Diameter lubrication hole (outer ring) |
| $r_1$ | min. 0.6 mm | Chamfer dimension bore |
| $r_2$ | min. 0.6 mm | Chamfer dimension outer ring |

## Abutment dimensions

| | | |
|---|---|---|
| $d_a$ | min. 33.3 mm | Abutment diameter shaft |
| $d_a$ | max. 34.2 mm | Abutment diameter shaft |
| $D_a$ | min. 41.3 mm | Abutment diameter housing |
| $D_a$ | max. 44 mm | Abutment diameter housing |




| | | |
|---|---|---|
| $r_a$ | max. 0.6 mm | Fillet radius shaft |
| $r_b$ | max. 0.6 mm | Fillet radius housing |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 62 kN |
| Basic static load rating | $C_0$ | 310 kN |
| Specific dynamic load factor | K | 100 N/mm |
| Specific static load factor | $K_0$ | 500 N/mm |
| Material constant | $K_M$ | 330 |

## Mass

| | |
|---|---|
| Mass plain bearing | 0.16 kg |

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