



# GE 70 TXG3A-2LS Radial spherical plain bearing, maintenance-free, metric sizes

Radial spherical plain bearing, maintenance-free, 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/PTFE fabric sliding contact surface combination and the bearings are maintenance-free. Except for those with designation suffix TXGR, they have a double-lip contact seal (-2RS) or a triple-lip, heavy duty contact seal (-2LS) on both sides. Those with designation suffixes TXGR, TXG3E or TXG3A are made of stainless steel.

- Designed for radial and combined radial and axial loads
- Long service life and maintenance-free
- Suitable for very heavy, constant direction loads
- Low coefficient of friction

## Overview

### Dimensions

|                   |        |
|-------------------|--------|
| Bore diameter     | 70 mm  |
| Outside diameter  | 105 mm |
| Width, inner ring | 49 mm  |
| Width, outer ring | 40 mm  |

### Performance

|                           |          |
|---------------------------|----------|
| Basic dynamic load rating | 880 kN   |
| Basic static load rating  | 1 460 kN |

### Properties

|                                     |                    |
|-------------------------------------|--------------------|
| Sliding contact surface combination | Steel/PTFE fabric  |
| Material, inner ring                | Stainless steel    |
| Material, outer ring                | Stainless steel    |
| Maintenance                         | Maintenance-free   |
| Sealing                             | Seal on both sides |
| Sealing type                        | Triple-lip         |
| Relubrication feature               | Without            |

# Technical Specification

|                                     |                    |
|-------------------------------------|--------------------|
| Maintenance                         | Maintenance-free   |
| Sliding contact surface combination | Steel/PTFE fabric  |
| Material, inner ring                | Stainless steel    |
| Material, outer ring                | Stainless steel    |
| Sealing                             | Seal on both sides |
| Sealing type                        | Triple-lip         |

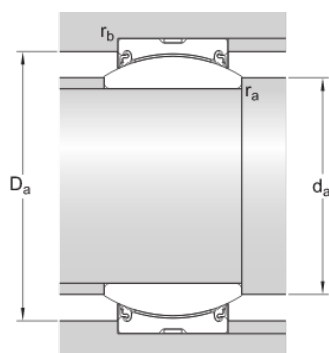


## Dimensions

|          |           |                              |
|----------|-----------|------------------------------|
| d        | 70 mm     | Bore diameter                |
| D        | 105 mm    | Outside diameter             |
| B        | 49 mm     | Width                        |
| C        | 40 mm     | Width outer ring             |
| $\alpha$ | 6 °       | Angle of tilt                |
| $d_k$    | 92 mm     | Raceway diameter inner ring  |
| $r_1$    | min. 1 mm | Chamfer dimension bore       |
| $r_2$    | min. 1 mm | Chamfer dimension outer ring |

## Abutment dimensions

|       |              |                           |
|-------|--------------|---------------------------|
| $d_a$ | min. 76.5 mm | Abutment diameter shaft   |
| $d_a$ | max. 77.9 mm | Abutment diameter shaft   |
| $D_a$ | min. 92 mm   | Abutment diameter housing |
| $D_a$ | max. 99 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              | 880 kN                |
| Basic static load rating     | C <sub>0</sub> | 1 460 kN              |
| Specific dynamic load factor | K              | 300 N/mm <sup>2</sup> |
| Specific static load factor  | K <sub>0</sub> | 500 N/mm <sup>2</sup> |

## Mass

|                    |         |
|--------------------|---------|
| Mass plain bearing | 1.55 kg |
|--------------------|---------|

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