

GE 180 TXA-2RS Radial spherical plain bearing, maintenance-free, metric sizes



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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 | 180 mm |
| Outside diameter | 260 mm |
| Width, inner ring | 105 mm |
| Width, outer ring | 80 mm |

Performance

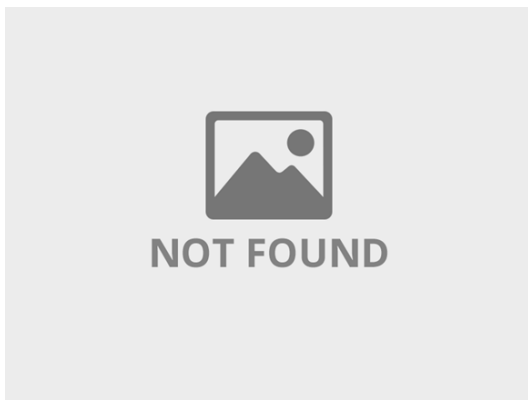
| | |
|---------------------------|----------|
| Basic dynamic load rating | 4 300 kN |
| Basic static load rating | 7 200 kN |

Properties

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

Technical Specification

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

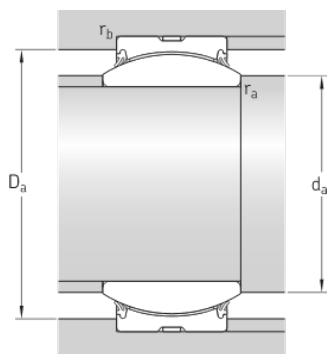


Dimensions

| | | |
|----------|-------------|------------------------------|
| d | 180 mm | Bore diameter |
| D | 260 mm | Outside diameter |
| B | 105 mm | Width |
| C | 80 mm | Width outer ring |
| α | 6 ° | Angle of tilt |
| d_k | 225 mm | Raceway diameter inner ring |
| r_1 | min. 1.1 mm | Chamfer dimension bore |
| r_2 | min. 1.1 mm | Chamfer dimension outer ring |

Abutment dimensions

| | | |
|-------|---------------|---------------------------|
| d_a | min. 191 mm | Abutment diameter shaft |
| d_a | max. 199 mm | Abutment diameter shaft |
| D_a | min. 224.5 mm | Abutment diameter housing |
| D_a | max. 250 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 | 4 300 kN |
| Basic static load rating | C_0 | 7 200 kN |
| Specific dynamic load factor | K | 300 N/mm ² |
| Specific static load factor | K_0 | 500 N/mm ² |

Mass

| | |
|--------------------|---------|
| Mass plain bearing | 18.5 kg |
|--------------------|---------|

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