

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

GEH 50 TXE-2LS

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	50 mm
Outside diameter	90 mm
Width, inner ring	56 mm
Width, outer ring	36 mm

Performance

Basic dynamic load rating	695 kN
Basic static load rating	1 160 kN

Properties

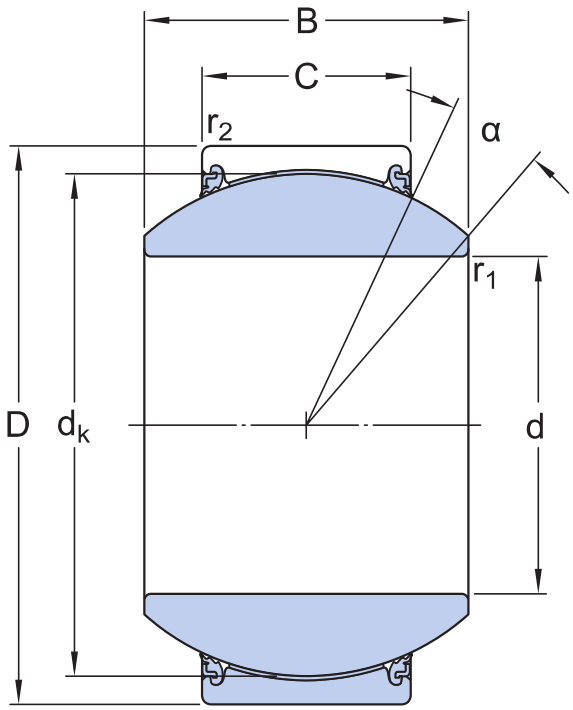
Sliding contact surface combination	Steel/PTFE fabric
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Maintenance-free
Sealing	Seal on both sides
Sealing type	Triple-lip
Relubrication feature	Without

Logistics

Product net weight	1.38 kg
eClass code	23-05-01-06
UNSPSC code	31171515

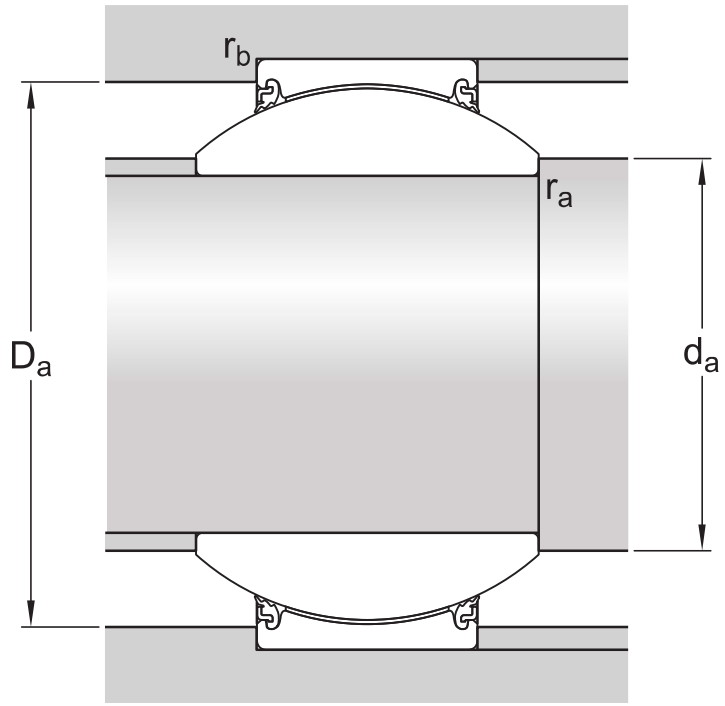
Technical specification

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	Triple-lip



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	56 mm	Width
C	36 mm	Width outer ring
α	17 °	Angle of tilt
d_k	80 mm	Raceway diameter inner ring
r_1	min. 0.6 mm	Chamfer dimension bore
r_2	min. 1 mm	Chamfer dimension outer ring



Abutment dimensions

d_a	min. 56 mm	Abutment diameter shaft
d_a	max. 57.1 mm	Abutment diameter shaft
D_a	min. 80 mm	Abutment diameter housing
D_a	max. 84 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	695 kN
Basic static load rating	C_0	1 160 kN
Specific dynamic load factor	K	300 N/mm²
Specific static load factor	K_0	500 N/mm²

Tolerances and clearances

- General bearing specifications

RADIAL LOCATION OF BEARINGS

- Recommended fits

More Information

Product details

- Radial spherical plain bearings requiring maintenance
- Maintenance-free radial spherical plain bearings
- General bearing specifications
- Temperature limits

Engineering information

- Principles of selection

Tools

- SKF Product select
- Heater selection tool

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