

GE 12 E



Radial spherical plain bearing, requiring maintenance, 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. The bearings require maintenance and can be relubricated only from the side.

- Designed for radial and combined radial and axial loads
- Suitable for heavy static, alternating or impact loads

Overview

Dimensions

Bore diameter	12 mm
Outside diameter	22 mm
Width, inner ring	10 mm
Width, outer ring	7 mm

Performance

Basic dynamic load rating	10.8 kN
Basic static load rating	54 kN

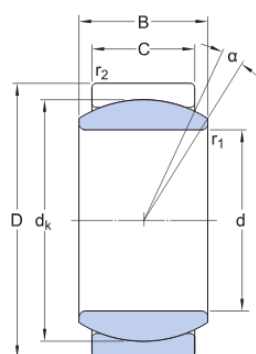
Properties

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	Without
Relubrication feature	Without

Technical Specification

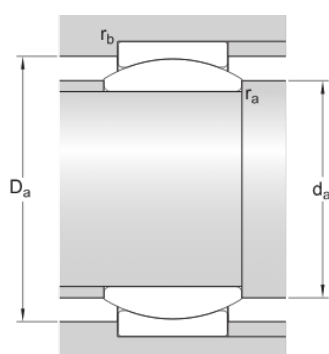
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Without

Dimensions



d	12 mm	Bore diameter
D	22 mm	Outside diameter
B	10 mm	Width
C	7 mm	Width outer ring
α	10 °	Angle of tilt
d_k	18 mm	Raceway diameter inner ring
r_1	min. 0.3 mm	Chamfer dimension bore
r_2	min. 0.3 mm	Chamfer dimension outer ring

Abutment dimensions



d_a	min. 13.8 mm	Abutment diameter shaft
d_a	max. 15 mm	Abutment diameter shaft
D_a	min. 17.1 mm	Abutment diameter housing
D_a	max. 20.4 mm	Abutment diameter housing
r_a	max. 0.3 mm	Fillet radius shaft
r_b	max. 0.3 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	C	10.8 kN
Basic static load rating	C_0	54 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	0.016 kg
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