

GE 10 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	10 mm
Outside diameter	19 mm
Width, inner ring	9 mm
Width, outer ring	6 mm

Properties

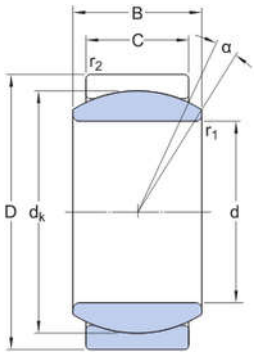
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without
Sliding material, contacting surfaces	Steel/Steel

Performance

Basic dynamic load rating	8.15 kN
Basic static load rating	40.5 kN

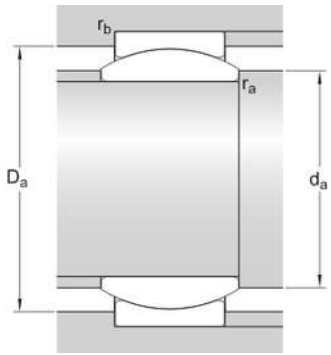
Technical Specification

Lubricant	Regular relubrication – grease
Design (sliding material, contacting surfaces)	Steel/steel
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing solution	No seals



Dimensions

d	10 mm	Bore diameter
D	19 mm	Outside diameter
B	9 mm	Width
C	6 mm	Width outer ring
α	12 °	Angle of tilt
d_k	16 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. 11.7 mm	Abutment diameter shaft
d_a	max. 13.2 mm	Abutment diameter shaft
D_a	min. 15.2 mm	Abutment diameter housing
D_a	max. 17.5 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	8.15 kN
Basic static load rating	C_0	40.5 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	0.012 kg

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