GEG 50 ES

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 and an extended inner ring. The bearings require maintenance and can be relubricated via lubrication holes and an annular groove in both rings.

- Designed for radial and combined radial and axial loads
- Suitable for heavy static, alternating or impact loads
- Extended inner ring can save spacer rings

Overview

Dimensions

Bore diameter	1.969 in
Outside diameter	2.953 in
Width, outer ring	1.102 in

Performance

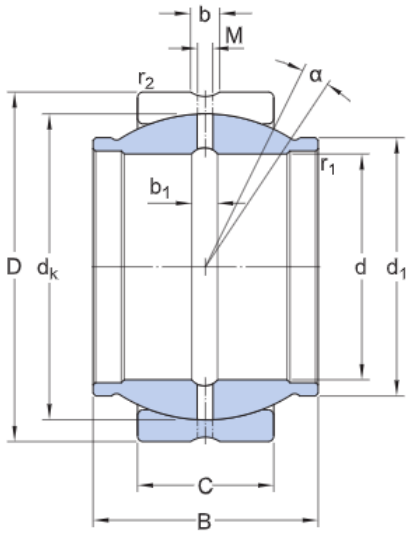
Basic dynamic load rating	35 070 lbf
Basic static load rating	175 351 lbf

Properties

Maintenance	Relubrication required
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Radial internal clearance	CN
Relubrication feature	With
Sealing	Without
Sliding contact surface combination	Steel/steel, standard

Technical Specification

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

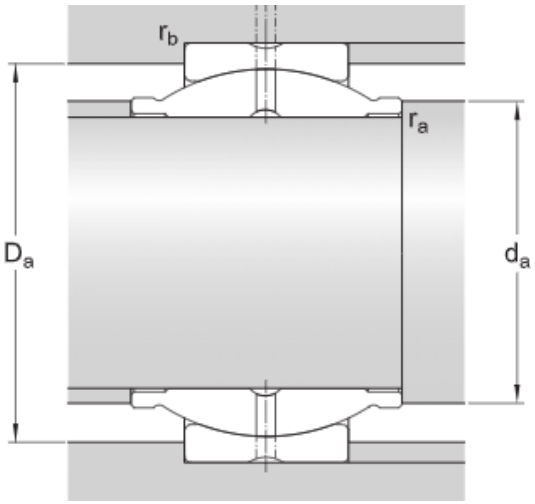


Dimensions

d	1.969 in	Bore diameter
D	2.953 in	Outside diameter
B	1.969 in	Width
C	1.102 in	Width outer ring
α	4 °	Angle of tilt
d_k	2.598 in	Raceway diameter inner ring
d_1	≈ 2.244 in	Shoulder diameter cylindrical extension inner ring
b	0.181 in	Width annular lubrication groove at outer ring
b_1	0.189 in	Width annular lubrication groove at inner ring
M	0.118 in	Diameter lubrication hole (outer ring)
r_1	min. 0.024 in	Chamfer dimension bore
r_2	min. 0.039 in	Chamfer dimension outer ring

Abutment dimensions

d_a	min. 2.201 in	Abutment diameter shaft
d_a	max. 2.244 in	Abutment diameter shaft
D_a	min. 2.469 in	Abutment diameter housing



D_a	max. 2.776 in	Abutment diameter housing
r_a	max. 0.024 in	Fillet radius shaft
r_b	max. 0.039 in	Fillet radius housing

Calculation data

Basic dynamic load rating	C	35 070 lbf
Basic static load rating	C_0	175 351 lbf
Specific dynamic load factor	K	14 503.774 psi
Specific static load factor	K_0	72 518.869 psi
Material constant	K_M	330

Mass

Mass plain bearing	1.235 lb

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