

GE 20 C



Radial spherical plain bearing, maintenance-free, metric sizes

These spherical plain bearings have a steel/PTFE sintered bronze contact surface combination and are maintenance-free. The sliding surfaces have to be externally protected from contaminants. These bearings are also available with a wider inner ring and a larger outside diameter (suffix GEH), which enable higher load ratings and larger tilt angles.

- Designed for radial and combined radial and axial loads
- Long service life and maintenance-free
- Suitable for heavy, constant direction loads
- Low coefficient of friction
- High operating temperatures
- High sliding velocities and small operating clearances

Overview

Dimensions

Bore diameter	0.787 in
Outside diameter	1.378 in
Width, outer ring	0.472 in

Performance

Basic dynamic load rating	7 081 lbf
Basic static load rating	17 535 lbf

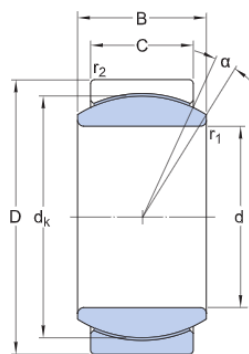
Properties

Maintenance	Maintenance-free
Material, inner ring	Bearing steel
Material, outer ring	Deep-drawing steel
Relubrication feature	Without
Sealing	Without
Sliding contact surface combination	Steel/PTFE sintered bronze

Technical Specification

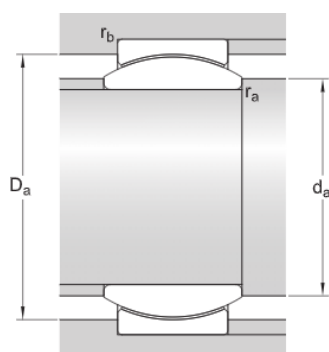
Maintenance	Maintenance-free
Sliding contact surface combination	Steel/PTFE sintered bronze
Material, inner ring	Bearing steel
Material, outer ring	Deep-drawing steel
Sealing	Without

Dimensions



d	0.787 in	Bore diameter
D	1.378 in	Outside diameter
B	0.63 in	Width
C	0.472 in	Width outer ring
α	9 °	Angle of tilt
d_k	1.142 in	Raceway diameter inner ring
r_1	min. 0.012 in	Chamfer dimension bore
r_2	min. 0.012 in	Chamfer dimension outer ring

Abutment dimensions



d_a	min. 0.858 in	Abutment diameter shaft
d_a	max. 0.953 in	Abutment diameter shaft
D_a	min. 1.087 in	Abutment diameter housing
D_a	max. 1.315 in	Abutment diameter housing
r_a	max. 0.012 in	Fillet radius shaft
r_b	max. 0.012 in	Fillet radius housing

Calculation data

Basic dynamic load rating	C	7 081 lbf
Basic static load rating	C ₀	17 535 lbf
Specific dynamic load factor	K	14 503.774 psi
Specific static load factor	K ₀	36 259.435 psi
Material constant	K _M	1 400

Mass

Mass plain bearing		0.143 lb
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