

GE 25 ES-2RS

Radial spherical plain bearing, requiring maintenance, sealed, 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 a double-lip contact seal on both sides. 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
- Long service life
- Minimal maintenance
- Suitable for heavy static, alternating or impact loads

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	42 mm
Width, inner ring	20 mm
Width, outer ring	16 mm

Properties

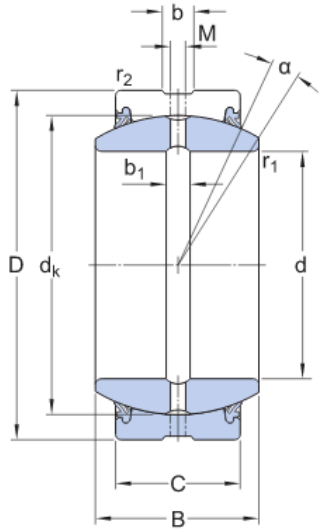
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Radial internal clearance	CN
Relubrication feature	With
Sealing	Seal on both sides
Sliding material, contacting surfaces	Steel/Steel

Performance

Basic dynamic load rating	48 kN
Basic static load rating	240 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	Double-lip seals

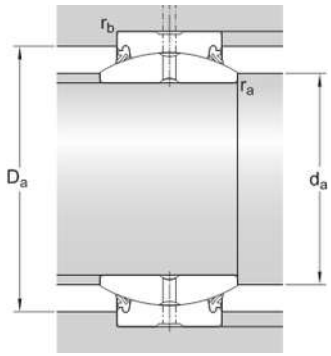


Dimensions

d	25 mm	Bore diameter
D	42 mm	Outside diameter
B	20 mm	Width
C	16 mm	Width outer ring
α	7 °	Angle of tilt
d_k	35.5 mm	Raceway diameter inner ring
b	3.1 mm	Width annular lubrication groove at outer ring
b_1	3.2 mm	Width annular lubrication groove at inner ring
M	2 mm	Diameter lubrication hole (outer ring)
r_1	min. 0.6 mm	Chamfer dimension bore
r_2	min. 0.6 mm	Chamfer dimension outer ring

Abutment dimensions

d_a	min. 28.2 mm	Abutment diameter shaft
d_a	max. 29.3 mm	Abutment diameter shaft
D_a	min. 36.9 mm	Abutment diameter housing
D_a	max. 39.2 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius shaft



r_b max. 0.6 mm — Fillet radius housing

Calculation data

Basic dynamic load rating	C	48 kN
Basic static load rating	C_0	240 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	0.12 kg

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