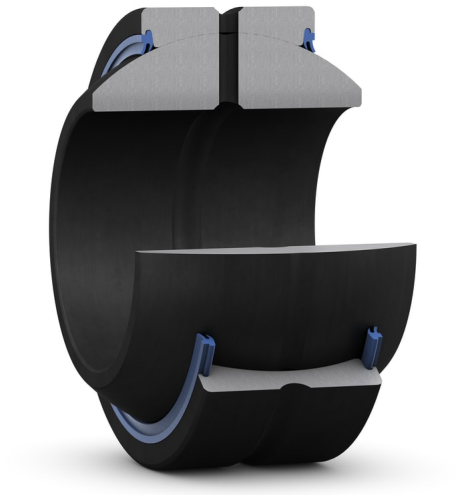


GEH 35 ES-2RS

Radial spherical plain bearing, requiring maintenance, sealed, metric sizes

These radial spherical plain bearings have 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. Compared to the GE series, they have a wider inner ring and a larger outside diameter, which enable higher load ratings and larger tilt angles.

- Designed for radial and combined radial and axial loads
- Long service life
- Minimal maintenance
- Suitable for heavy static, alternating or impact loads
- Enable larger tilt angles

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	62 mm
Width, inner ring	35 mm
Width, outer ring	22 mm

Performance

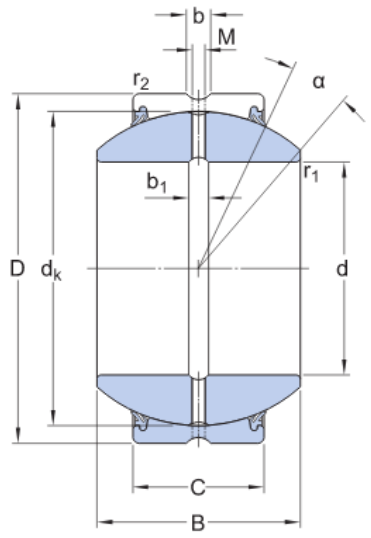
Basic dynamic load rating	100 kN
Basic static load rating	500 kN

Properties

Maintenance	Relubrication required
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Radial internal clearance	CN
Relubrication feature	With
Sealing	Seal on both sides
Sealing type	Double-lip
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	Seal on both sides
Sealing type	Double-lip

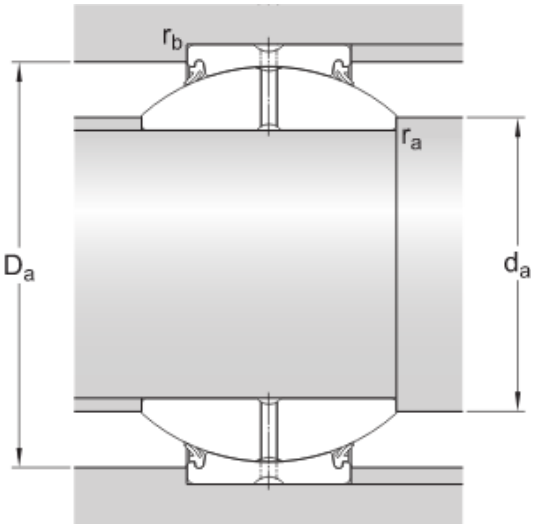


Dimensions

d	35 mm	Bore diameter
D	62 mm	Outside diameter
B	35 mm	Width
C	22 mm	Width outer ring
α	15 °	Angle of tilt
d_k	53 mm	Raceway diameter inner ring
b	3.8 mm	Width annular lubrication groove at outer ring
b_1	4 mm	Width annular lubrication groove at inner ring
M	2.5 mm	Diameter lubrication hole (outer ring)
r_1	min. 0.6 mm	Chamfer dimension bore
r_2	min. 1 mm	Chamfer dimension outer ring

Abutment dimensions

d_a	min. 38.8 mm	Abutment diameter shaft
d_a	max. 39.8 mm	Abutment diameter shaft
D_a	min. 54.5 mm	Abutment diameter housing
D_a	max. 57.8 mm	Abutment diameter housing
r_a	max. 0.6 mm	Fillet radius shaft



r_b max. 1 mm — Fillet radius housing

Calculation data

Basic dynamic load rating	C	100 kN
Basic static load rating	C_0	500 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	0.39 kg

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