



Image may differ from product. See technical specification for details.

GEM 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, an extended inner ring 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
- Extended inner ring can save spacer rings

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	42 mm
Width, inner ring	29 mm
Width, outer ring	16 mm

Performance

Basic dynamic load rating	48 kN
Basic static load rating	240 kN

Properties

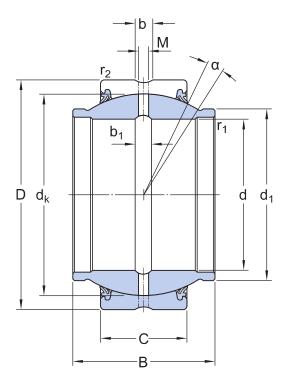
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Seal on both sides
Sealing type	Double-lip
Relubrication feature	With

Logistics

Product net weight	0.114 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

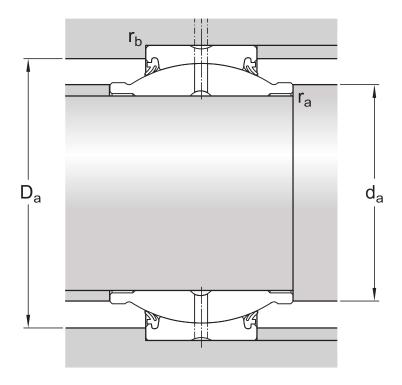
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Seal on both sides
Sealing type	Double-lip



Dimensions

d	25 mm	Bore diameter
D	42 mm	Outside diameter
В	29 mm	Width
С	16 mm	Width outer ring
α	4 °	Angle of tilt
d _k	35.5 mm	Raceway diameter inner ring
d ₁	≈ 29 mm	Shoulder diameter cylindrical extension 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. 0.3 mm	Chamfer dimension bore
r ₂	min. 0.6 mm	Chamfer dimension outer ring



Abutment dimensions

d _a	min. 28.3 mm	Abutment diameter shaft
d _a	max. 29 mm	Abutment diameter shaft
Da	min. 36.9 mm	Abutment diameter housing
Da	max. 39.2 mm	Abutment diameter housing
ra	max. 0.3 mm	Fillet radius shaft
r _b	max. 0.6 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	С	48 kN
Basic static load rating	C ₀	240 kN
Specific dynamic load factor	К	100 N/mm²

Specific static load factor	К ₀	500 N/mm ²
Material constant	K _M	330

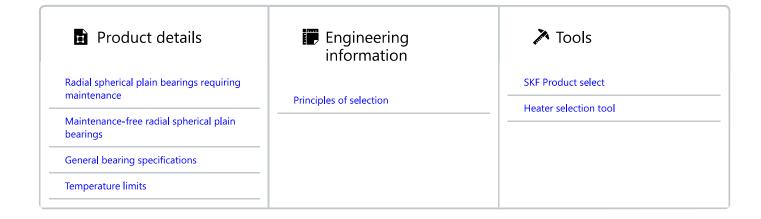
Tolerances and clearances

• General bearing specifications

RADIAL LOCATION OF BEARINGS

• Recommended fits

More Information





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