

# GEH 12 CR radial spherical plain bearing, maintenance-free, metric sizes

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	12 mm
Outside diameter	26 mm
Width, inner ring	15 mm
Width, outer ring	9 mm

### Performance

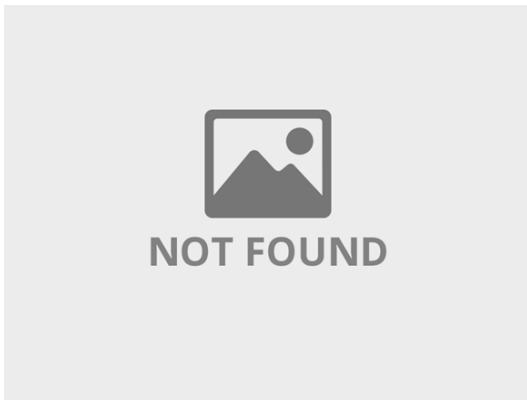
Basic dynamic load rating	18 kN
Basic static load rating	45 kN

### Properties

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

# Technical Specification

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

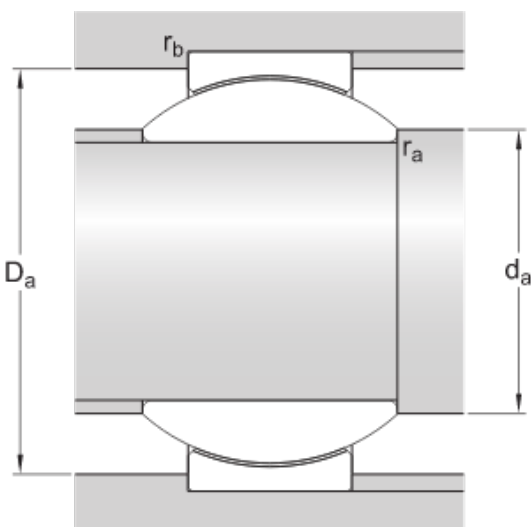


## Dimensions

d	12 mm	Bore diameter
D	26 mm	Outside diameter
B	15 mm	Width
C	9 mm	Width outer ring
$\alpha$	18 °	Angle of tilt
$d_k$	22 mm	Raceway diameter inner ring
$r_1$	min. 0.3 mm	Chamfer dimension bore
$r_2$	min. 0.3 mm	Chamfer dimension outer ring

## Abutment dimensions

$d_a$	min. 13.7 mm	Abutment diameter shaft
$d_a$	max. 16.1 mm	Abutment diameter shaft
$D_a$	min. 20.9 mm	Abutment diameter housing
$D_a$	max. 24.5 mm	Abutment diameter housing
$r_a$	max. 0.3 mm	Fillet radius shaft
$r_b$	max. 0.3 mm	Fillet radius housing



## Calculation data

Basic dynamic load rating	C	18 kN
Basic static load rating	$C_0$	45 kN
Specific dynamic load factor	K	100 N/mm <sup>2</sup>
Specific static load factor	$K_0$	250 N/mm <sup>2</sup>
Material constant	$K_M$	1 400

## Mass

Mass plain bearing	0.03 kg
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