

# GAC 100 FAngular contact spherical plain bearing, maintenance-free, metric sizes

## Angular contact spherical plain bearing, maintenance-free, metric sizes

Angular contact spherical plain bearings are designed to accommodate combined radial and axial loads. Single bearings can accommodate axial loads acting in one direction. This specific design includes a steel/PTFE FRP sliding contact surface combination that is maintenance-free. However, relubrication, which can be applied from both sides, can extend bearing service life.

- Designed for combined radial and axial loads
- Separable inner and outer rings enable easier mounting
- Long service life and maintenance-free
- Relatively insensitive to contaminants
- Low coefficient of friction

## Overview

### Dimensions

| | |
|---|---|
| Bore diameter | 100 mm |
| Outside diameter | 150 mm |
| Width, inner ring | 32 mm |
| Width, outer ring | 31 mm |

### Performance

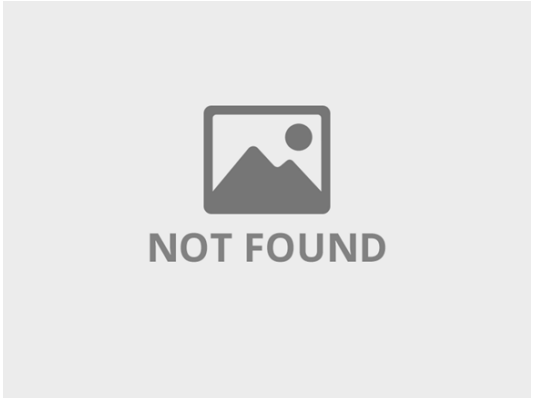
| | |
|---|---|
| Basic dynamic load rating | 186 kN |
| Basic static load rating | 300 kN |

### Properties

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

# Technical Specification

| | |
|---|---|
| Sliding contact surface combination | Steel/PTFE FRP |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Relubrication feature | Without |
| Sealing | Without |

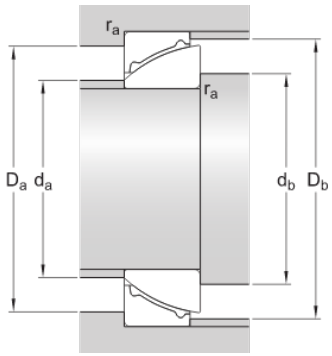



## Dimensions

| | | |
|---|---|---|
| d | 100 mm | Bore diameter |
| D | 150 mm | Outside diameter |
| T | 32 mm | Width |
| α | 0.8 ° | Angle of tilt |
| $d_k$ | 141 mm | Raceway diameter inner ring |
| B | 32 mm | Width inner ring |
| C | 31 mm | Width outer ring |
| $r_1$ | min. 2 mm | Chamfer dimension bore/large side face |
| $r_2$ | min. 0.6 mm | Chamfer dimension bore/small side face |
| s | 11.6 mm | Distance sphere diameter centre - large inner ring side face |

## Abutment dimensions

| | | |
|---|---|---|
| $d_a$ | max. 112 mm | Abutment diameter shaft, small inner ring side face |
| $d_b$ | max. 128 mm | Abutment diameter shaft, large inner ring side face |
| $D_a$ | min. 120 mm | Abutment diameter housing, large outer ring side face |
| $D_b$ | min. 141 | Abutment diameter housing, small outer |




| | | |
|---|---|---|
| | mm | ring side face |
| $r_a$ | max. 2 mm | Fillet radius shaft, housing |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 186 kN |
| Basic static load rating | $C_0$ | 300 kN |
| Specific dynamic load factor | K | 50 N/mm² |
| Specific static load factor | $K_0$ | 80 N/mm² |
| Material constant | $K_M$ | 480 |

## Mass

| | |
|---|---|
| Mass plain bearing | 2.35 kg |

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