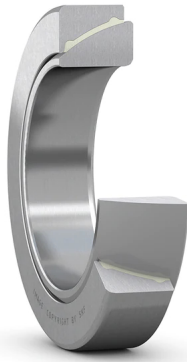


# GAC 50 F



## 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	50 mm
Outside diameter	80 mm
Width, inner ring	20 mm
Width, outer ring	19 mm

### Properties

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

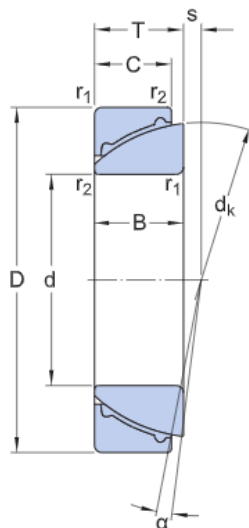
### Performance

Basic dynamic load rating	58.5 kN
Basic static load rating	93 kN

# Technical Specification

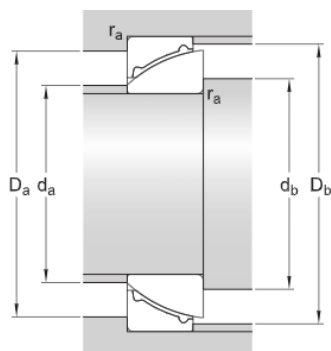
Sliding contact surface combination	Steel/PTFE FRP
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Relubrication feature	Without
Sealing	Without

## Dimensions



d	50 mm	Bore diameter
D	80 mm	Outside diameter
T	20 mm	Width
$\alpha$	1.6 °	Angle of tilt
$d_k$	74 mm	Raceway diameter inner ring
B	20 mm	Width inner ring
C	19 mm	Width outer ring
$r_1$	min. 1 mm	Chamfer dimension bore/large side face
$r_2$	min. 0.3 mm	Chamfer dimension bore/small side face
s	4.3 mm	Distance sphere diameter centre - large inner ring side face

## Abutment dimensions



$d_a$	max. 56 mm	Abutment diameter shaft, small inner ring side face
$d_b$	max. 67 mm	Abutment diameter shaft, large inner ring side face
$D_c$	min. 60 mm	Abutment diameter housing, large outer ring side face
$D_i$	min. 74.5 mm	Abutment diameter housing, small outer ring side face

$r_a$  max. 1 mm

Fillet radius shaft, housing

### Calculation data

Basic dynamic load rating	C	58.5 kN
Basic static load rating	$C_0$	93 kN
Specific dynamic load factor	K	50 N/mm
Specific static load factor	$K_0$	80 N/mm
Material constant	$K_M$	480

### Mass

Mass plain bearing	0.46 kg
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