

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

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

Performance

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

Properties

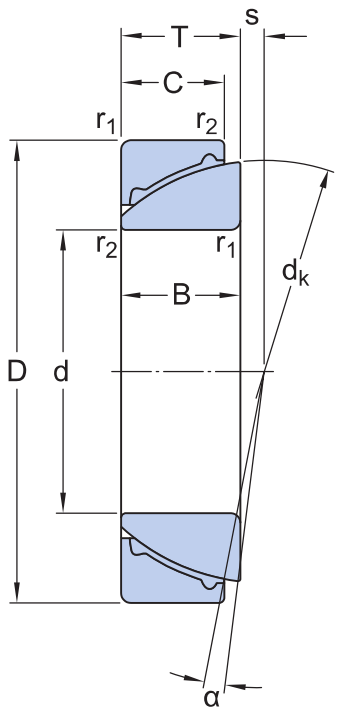
Sliding contact surface combination	Steel/PTFE FRP
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Maintenance-free
Sealing	Without
Relubrication feature	Without

Logistics

Product net weight	0.42 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

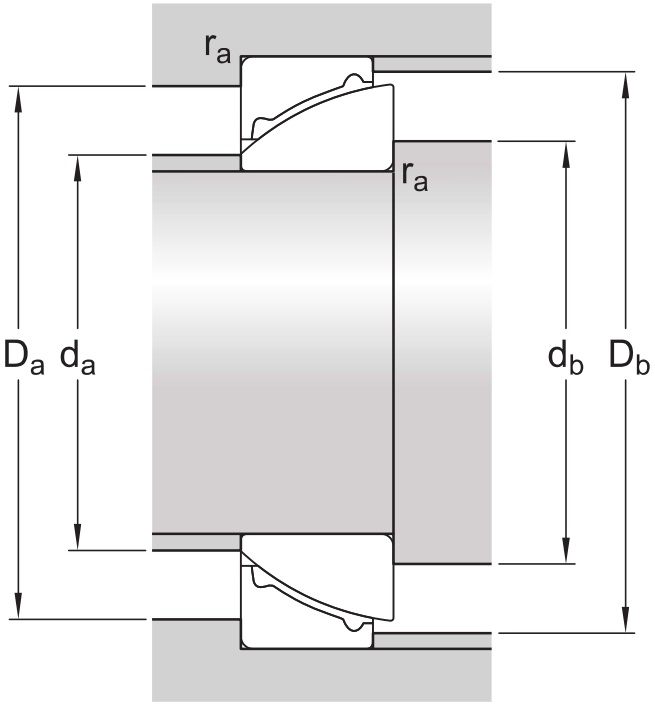
Sliding contact surface combination	Steel/PTFE FRP
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Relubrication feature	Without
Sealing	Without



Dimensions

d	50 mm	Bore diameter
D	80 mm	Outside diameter
T	20 mm	Width
α	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_a	min. 60 mm	Abutment diameter housing, large outer ring side face
D_b	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^2
Specific static load factor	K_0	80 N/mm^2
Material constant	K_M	480

Tolerances and clearances

- General bearing specifications

More Information

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