

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

GAC 45 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	45 mm
Outside diameter	75 mm
Width, inner ring	20 mm
Width, outer ring	18 mm

Performance

Basic dynamic load rating	50 kN
Basic static load rating	80 kN

Properties

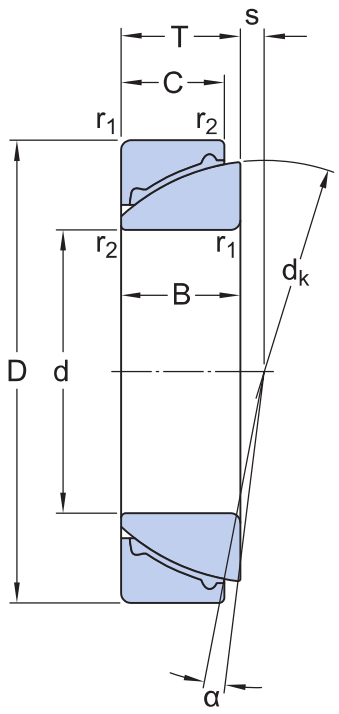
Sliding contact surface combination	Steel/PTFE FRP
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Maintenance-free
Sealing	Without
Relubrication feature	Without

Logistics

Product net weight	0.385 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

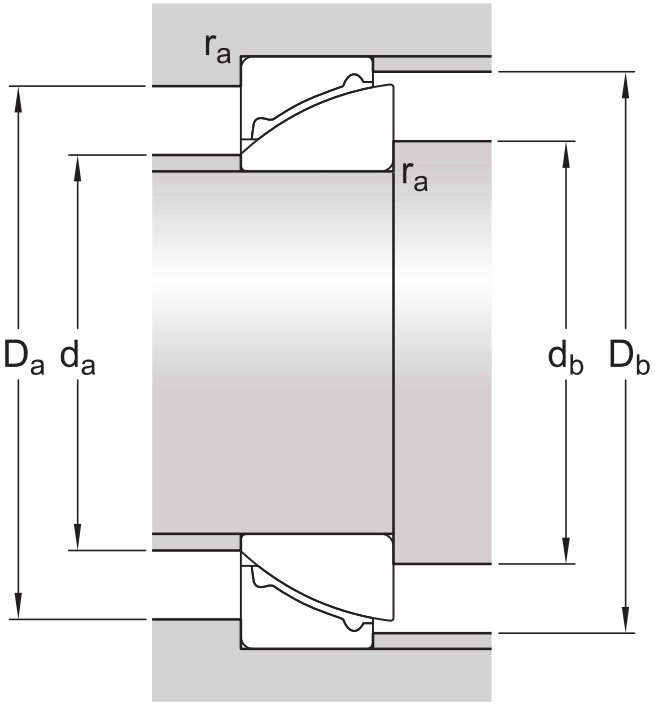
Sliding contact surface combination	Steel/PTFE FRP
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Relubrication feature	Without
Sealing	Without



Dimensions

d	45 mm	Bore diameter
D	75 mm	Outside diameter
T	20 mm	Width
α	3.4 °	Angle of tilt
d_k	68.5 mm	Raceway diameter inner ring
B	20 mm	Width inner ring
C	18 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	3.5 mm	Distance sphere diameter centre - large inner ring side face



Abutment dimensions

d_a	max. 51 mm	Abutment diameter shaft, small inner ring side face
d_b	max. 60 mm	Abutment diameter shaft, large inner ring side face
D_a	min. 55 mm	Abutment diameter housing, large outer ring side face
D_b	min. 69 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	50 kN
Basic static load rating	C_0	80 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

Terms of use

By accessing and using this website / app owned and published by AB SKF (publ.) (556007-3495 · Gothenburg) (“SKF”), you agree to the following terms and conditions:

Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app.

Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service.

Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

Third Party Services

When viewing YouTube content via the SKF website(s) (i.e. using YouTube API Services), you agree to be bound by the YouTube Terms of Service.

Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website /app includes certain images used under license from Shutterstock, Inc.

Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

Changes

SKF reserves the right to make changes or additions to this website / app at any time.