



SKF 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.

Technical specifications

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

Dimensions	
Bore diameter	50 mm
Outside diameter	80 mm
Width	20 mm
Angle of tilt	1.6 °
Raceway diameter inner ring	74 mm
Width inner ring	20 mm
Width outer ring	19 mm
Chamfer dimension bore/large side face	1 mm
Chamfer dimension bore/small side face	0.3 mm
Distance sphere diameter centre - large inner ring side face	4.3 mm
Width, inner ring	20 mm
Width, outer ring	19 mm

Abutment dimensions	
Abutment diameter shaft, small inner ring side face	56 mm
Abutment diameter shaft, large inner ring side face	67 mm
Abutment diameter housing, large outer ring side face	60 mm
Abutment diameter housing, small outer ring side face	74.5 mm
Fillet radius shaft, housing	1 mm

Calculation data	
Basic dynamic load rating	58.5 kN
Basic static load rating	93 kN
Specific dynamic load factor	50 N/mm ²
Specific static load factor	80 N/mm ²
Material constant	480

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

