



SKF FYC 50 TF

Round flanged ball bearing unit with set screw locking, cast iron housing, JIS

These round flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, with an extended inner ring and set screw locking, and are suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a cast iron housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

Technical specifications

General	
Compliance with standard	JIS
Purpose specific	For agricultural applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without

Dimensions	
Bore diameter	50 mm
Outer diameter of inner ring	62.51 mm
Width of housing	39.5 mm
Flange width	14 mm
Height of spherical seat centre	12 mm
Width of inner ring	51.6 mm
Overall bearing width	51.6 mm
Distance from locking device side face to thread centre	9 mm
External diameter	113.1 mm
Centering diameter	110 mm
Pitch diameter of bolt holes	138
Distance between attachment bolts	97.6 mm
Outside diameter	165 mm
Length of attachment bolt hole	16 mm
Distance from locking device side face to raceway centre	32.6 mm
Overall width	42.6 mm
Housing thread for grease fitting	1/4-28 UNF
Axial position of the housing thread	22 mm
Diameter of head sphere of grease fitting	6.5 mm
Hexagonal key size for the grease fitting	7 mm
Thread of grease fitting	1/4-28 SAE-LT
Attachment bolt diameter	14 mm
Shaft diameter	50 mm
Housing overall width	39.5 mm
Width, total	42.6 mm
Pitch diameter of bolt holes of round and triangle flange type housing	138 mm
Bearing width, total	51.6 mm

Calculation data	
Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Fatigue load limit	0.98 kN
Limiting speed	4000 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	M10x1

Hexagonal key size for set screw	5 mm
Recommended tightening torque for set screw	16.5 N·m
Recommended diameter for attachment bolts, mm	14 mm
Recommended diameter for attachment bolts, inch	0.5625 in

Performance	
Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	4000 r/min
Note	Limiting speed with shaft tolerance h6

Properties	
Housing type	Flanged
Flanged housing type	Round
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	2.9 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

