



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

FYC 65 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.

- Resist high levels of contamination
- Designed for high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Attachment bolt diameter	16 mm
Shaft diameter	65 mm
Housing overall width	50 mm
Width, total	58.9 mm
Pitch diameter of bolt holes of round and triangle flange type housing	170 mm
Bearing width, total	68.3 mm

Performance

Basic dynamic load rating	57.2 kN
Basic static load rating	40 kN
Limiting speed	3 000 r/min
Note	Limiting speed with shaft tolerance h6

Properties

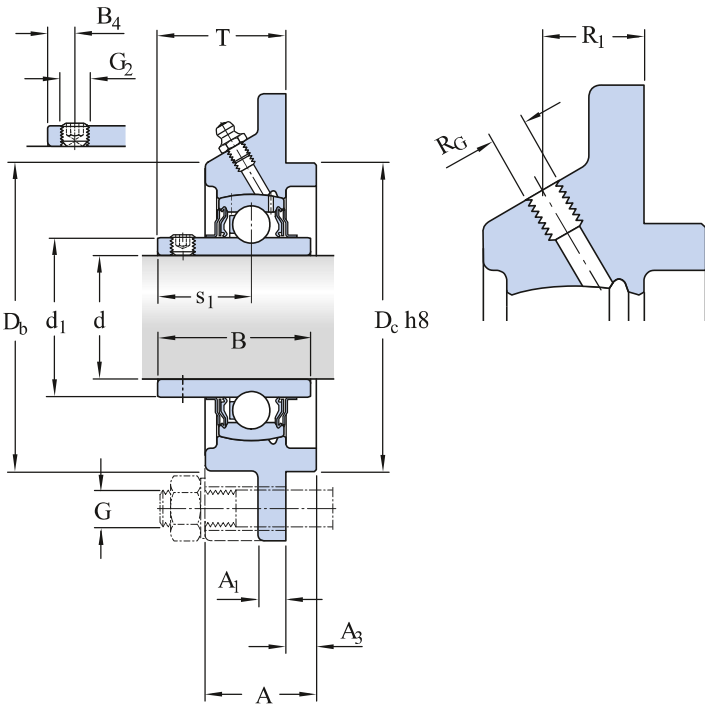
Housing type	Flanged
Flanged housing type	Round
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal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

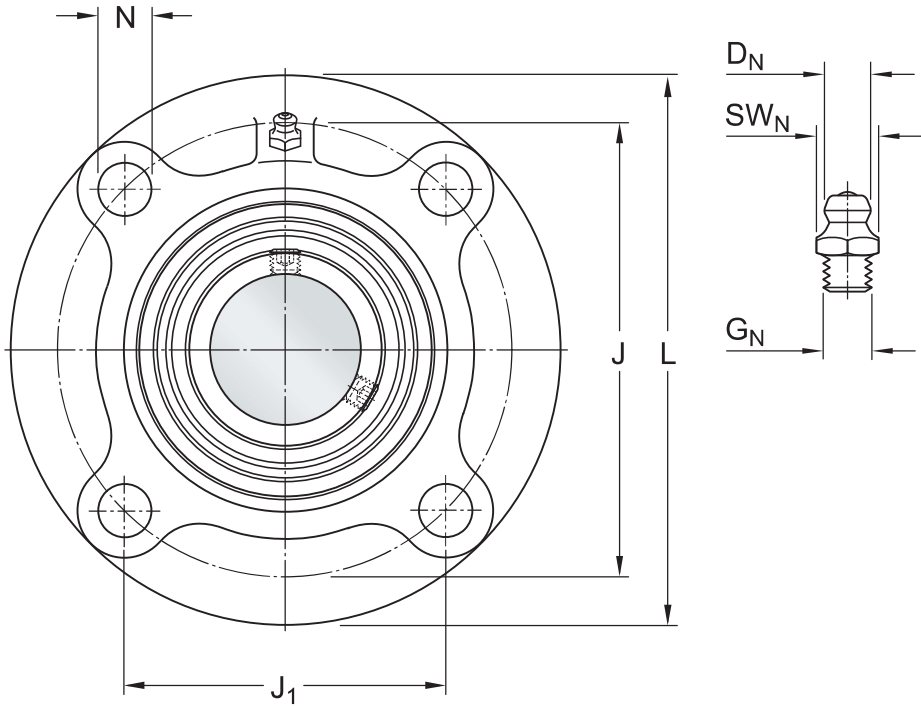
Logistics

Product net weight	5.77 kg
eClass code	23-05-16-02
UNSPSC code	31171536

Technical specification

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

d	65 mm	Bore diameter
d ₁	≈ 82.5 mm	Outer diameter of inner ring
A	50 mm	Width of housing
A ₁	15 mm	Flange width
A ₃	14 mm	Height of spherical seat centre
B	68.3 mm	Width of inner ring
B ₁	68.3 mm	Overall bearing width
B ₄	10 mm	Distance from locking device side face to thread centre
D _b	152.1 mm	External diameter
D _c	145 mm	Centering diameter
J	170	Pitch diameter of bolt holes
J ₁	120.2 mm	Distance between attachment bolts
L	205 mm	Outside diameter
N	19 mm	Length of attachment bolt hole
s ₁	42.9 mm	Distance from locking device side face to raceway centre
T	58.9 mm	Overall width

GREASE FITTING

D_N	6.5 mm	Diameter of head sphere of grease fitting
SW_N	7 mm	Hexagonal key size for the grease fitting
G_N	1/4-28 SAE-LT	Thread of grease fitting

THREADED HOLE

R_G	1/4-28 UNF	Housing thread for grease fitting
R_1	24.5 mm	Axial position of the housing thread

Calculation data

Basic dynamic load rating	C	57.2 kN
Basic static load rating	C_0	40 kN
Fatigue load limit	P_u	1.7 kN
Limiting speed		3 000 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G_2	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	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → [table 1](#)
- Radial internal clearance → [table 2](#)
- Recommended fit → [table 3](#)
- Shaft tolerance → [table 4](#)

Compatible products

Component

Round flanged housing for insert bearing, cast iron	FYC 513
Insert bearing with set screw locking and extended inner ring	YAR 213-2F

More Information

 Product details	 Engineering information	 Tools
Flanged units to ISO standards	 Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	SKF Product select
Flanged units to North American standards	Principles of selecting mounted bearing solutions	Bearing Frequency Calculator
Flanged units to Japanese Industrial Standards (JIS)		
Flanged units, not standardized (SKF Food Line)	Bearing failure and how to prevent it	
Permissible misalignment		
Locating/non-locating support		
Loads		
Temperature limits		
Permissible speed		
Lubrication		
Mounting and dismounting		
Ordering information		
Designation system		



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