



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

FYTB 1.1/4 TF

Oval flanged ball bearing unit with set screw locking, cast iron housing, ISO

These oval flanged ball bearing units are compliant with ISO standards. 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	12.7 mm
Shaft diameter	31.75 mm
Housing overall width	34.5 mm
Width, total	46.4 mm
Centre distance between bolt holes	130 mm
Bearing width, total	42.9 mm

Performance

Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	5 300 r/min
Note	Limiting speed with shaft tolerance h6

Properties

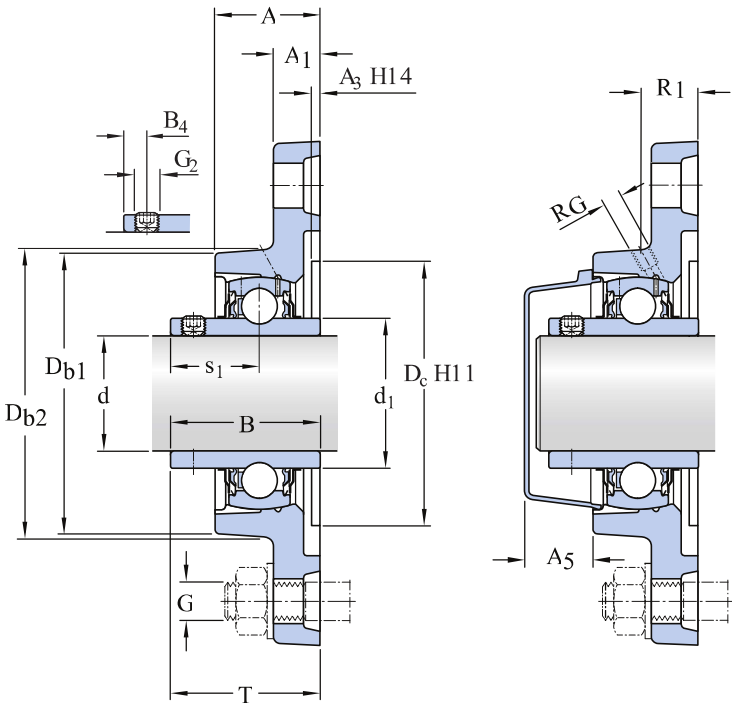
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

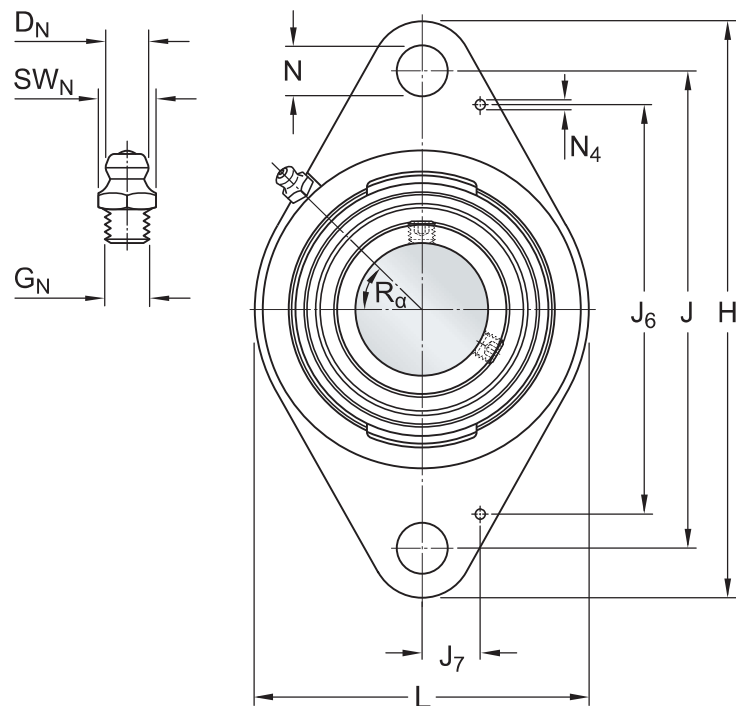
Logistics

Product net weight	1.26 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Compliance with standard	ISO
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Optional end cover
Coating	Without





Dimensions

d	31.75 mm	Bore diameter
d ₁	≈ 46.1 mm	Outer diameter of inner ring
A	34.5 mm	Width of housing
A ₁	13 mm	Flange width
A ₃	3.2 mm	Depth of centring recess
A ₅	24.5 mm	Width including end cover
B	42.9 mm	Width of inner ring
B ₁	42.9 mm	Overall bearing width
B ₄	6 mm	Distance from locking device side face to thread centre
D _{b1}	88 mm	Top external diameter
D _{b2}	96 mm	Base external diameter
D _c	88.9 mm	Diameter of housing centering recess
H	156 mm	Overall height
J	130 mm	Centre distance between bolt holes
L	96 mm	Overall length
N	14 mm	Diameter of attachment bolt hole
s ₁	25.4 mm	Distance from locking device side face to raceway centre

T	46.4 mm	Overall width
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THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R ₁	22 mm	Axial position of the housing thread
R _α	45 °	Angular position of the housing thread

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

DOWEL PINS

J ₆	106 mm	Distance of dowel pins
J ₇	15 mm	Axial offset of dowel pins
N ₄	2 mm	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	25.5 kN
Basic static load rating	C ₀	15.3 kN
Fatigue load limit	P _u	0.655 kN
Limiting speed		5 300 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G ₂	5/16-24 UNF
Hexagonal key size for set screw		3.969 mm

Recommended tightening torque for set screw		6.5 N·m
Recommended diameter for attachment bolts, mm	G	12 mm
Recommended diameter for attachment bolts, inch	G	0.5 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

Oval flanged housing for insert bearings, cast iron	FYTB 507 M
Insert bearing with set screw locking and extended inner ring	YAR 207-104-2F

Recommended product

End cover for bearing units	ECY 207
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More Information

 Product details	 Engineering information	 Tools
Flanged units to ISO standards		SKF Product select
Flanged units to North American standards	 Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	Bearing Frequency Calculator
Flanged units to Japanese Industrial Standards (JIS)	Principles of selecting mounted bearing solutions	
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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