

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

FYTB 1. 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

Shaft diameter	25.4 mm
Housing overall width	30 mm
Width, total	38.8 mm
Centre distance between bolt holes	99 mm
Bearing width, total	34.1 mm

Performance

Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	7 000 r/min
Note	Limiting speed with shaft tolerance h6

Properties

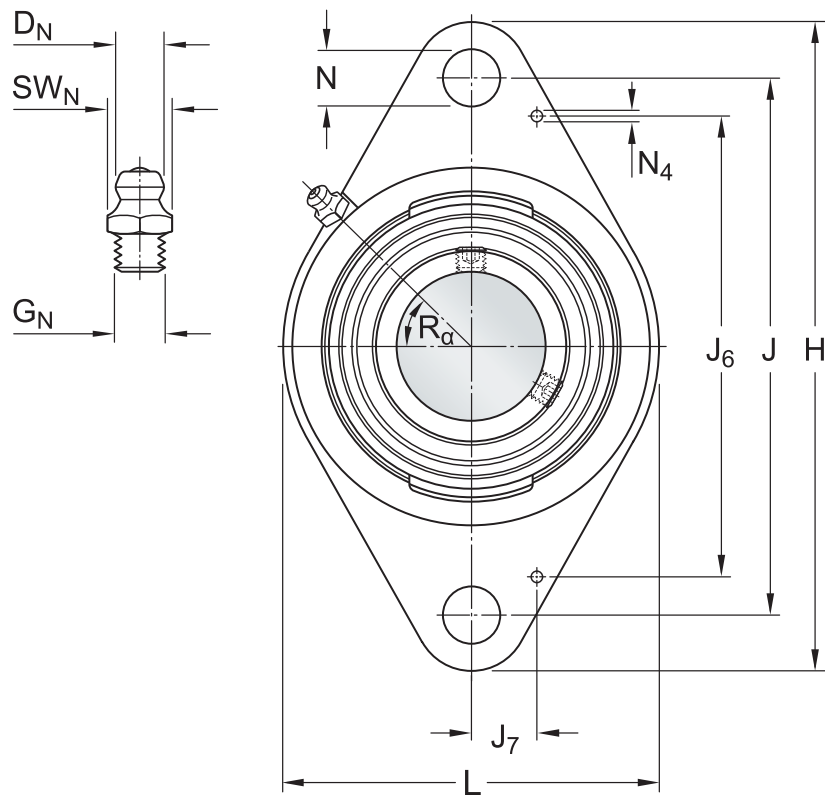
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal 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	0.579 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	25.4 mm	Bore diameter
d ₁	≈ 33.74 mm	Outer diameter of inner ring
A	30 mm	Width of housing
A ₁	12 mm	Flange width

A ₃	3.2 mm	Depth of centring recess
A ₅	20.5 mm	Width including end cover
B	34.1 mm	Width of inner ring
B ₁	34.1 mm	Overall bearing width
B ₄	5 mm	Distance from locking device side face to thread centre
D _{b1}	65 mm	Top external diameter
D _{b2}	70 mm	Base external diameter
D _c	63.5 mm	Diameter of housing centering recess
H	124 mm	Overall height
J	99 mm	Distance between attachment bolts
L	70 mm	Overall length
N	11.5 mm	Diameter of attachment bolt hole
s ₁	19.8 mm	Distance from locking device side face to raceway centre
T	38.8 mm	Overall width

THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R ₁	20.5 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	81 mm	Distance of dowel pins
J ₇	12 mm	Axial offset of dowel pins

N ₄	2 mm	Recommended diameter for dowel pins
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Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN
Limiting speed		7 000 r/min
		Limiting speed with shaft tolerance h ₆

Mass

Mass bearing unit	0.58 kg
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Mounting information

Set screw	G ₂	1/4-28 UNF
Hexagonal key size for set screw		3.175 mm
Recommended tightening torque for set screw		4 N·m
Recommended diameter for attachment bolts, mm	G	10 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

Compatible products

Component

Oval flanged housing for insert bearings, cast iron	FYTB 505 M
Insert bearing with set screw locking and extended inner ring	YAR 205-100-2F

Recommended product

End cover for bearing units

[ECY 205](#)



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