

# FYTBK 25 TF



## Oval flanged ball bearing unit with set screw locking and extended inner ring, composite housing, ISO

These oval flanged ball bearing units are compliant with ISO standards. The unit consists of an insert bearing, with an extended inner ring and set screw locking, and is suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a composite 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.

- Chemical resistant
- Pre-lubricated for life
- Lightweight
- Strong

## Overview

### Dimensions

Bearing width, total	34.1 mm
Centre distance between bolt holes	99 mm
Housing overall width	30 mm
Shaft diameter	25 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

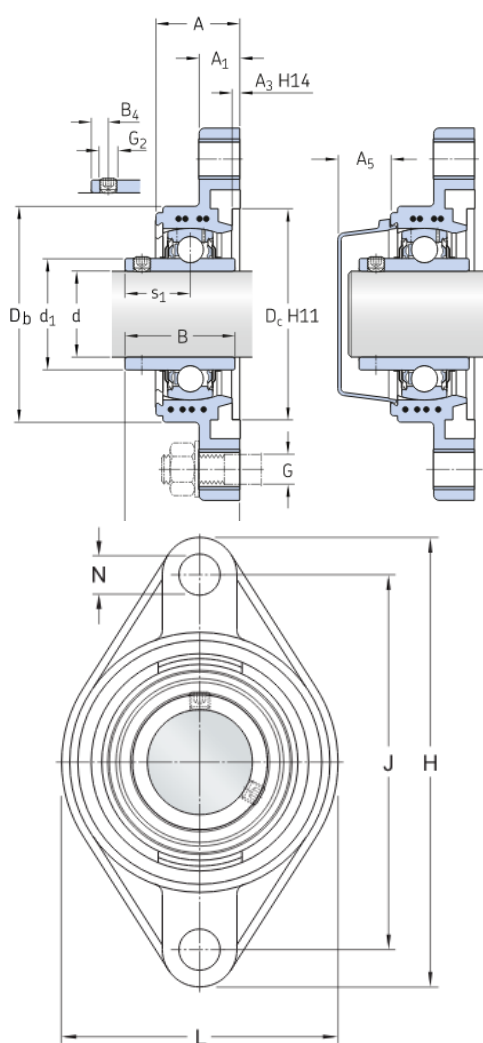
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Flanged housing type	Oval
Grease fitting	Without
Housing type	Flanged
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Composite
Number of bolt holes for fasteners	2
Relubrication hole	Without
Retaining feature, inner ring	Set screws

Rubber seating ring	Without
Sealing type	Contact, standard
Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Optional end cover

# Technical Specification

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

## Dimensions



d	25 mm	Bore diameter
d <sub>1</sub>	≈ 33.74 mm	Outer diameter of inner ring
A	30 mm	Overall width
A <sub>1</sub>	15 mm	Flange width
A <sub>3</sub>	3.2 mm	Depth of centring recess
A <sub>5</sub>	20 mm	Width including end cover
B	34.1 mm	Width of inner ring
B <sub>4</sub>	5 mm	Distance from locking device side face to thread centre
D <sub>b</sub>	65 mm	Top external diameter
D <sub>c</sub>	63.5 mm	Diameter of housing centering recess
H	124 mm	Overall height
H <sub>a</sub>	6 mm	Depth of housing centering recess
J	99 mm	Distance between attachment bolts
L	70 mm	Overall length
N	12.3 mm	Diameter of attachment bolt hole
s <sub>1</sub>	19.8 mm	Distance from locking device side face to raceway centre
T	38.8 mm	Overall unit width

## Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C <sub>0</sub>	7.8 kN
Fatigue load limit	P <sub>u</sub>	0.335 kN
Limiting speed		7 000 r/min
		Limiting speed with shaft tolerance h6

## Mass

Mass bearing unit	0.29 kg
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## Mounting information

Set screw	G <sub>2</sub>	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 Nm
Recommended diameter for attachment bolts, mm	G	10 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

## Included products

Housing	FYTBK 505
Bearing	YAR 205-2F

## Associated products

End cover	ECY 205
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