

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

FYTB 45 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	45 mm
Housing overall width	39 mm
Width, total	54.2 mm
Centre distance between bolt holes	148.5 mm
Bearing width, total	49.2 mm

Performance

Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Limiting speed	4 300 r/min
Note	Limiting speed with shaft tolerance h6

Properties

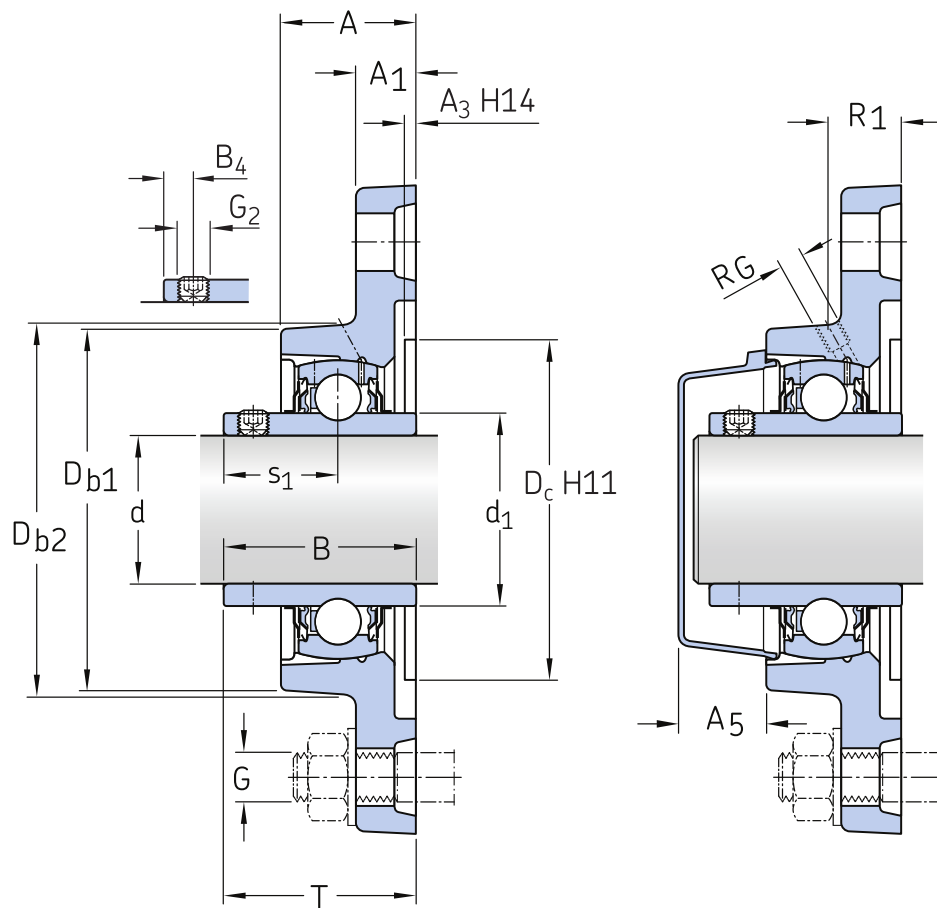
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal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

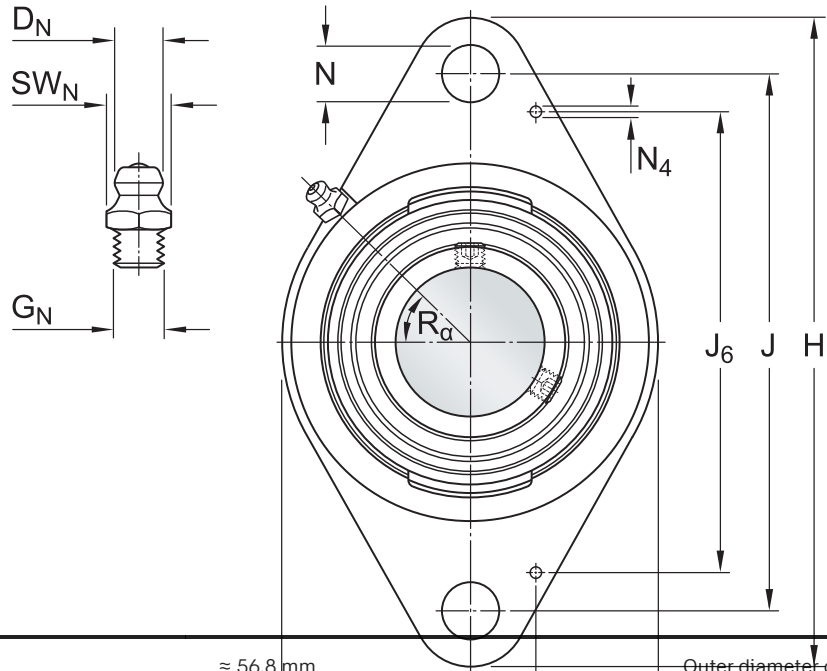
Logistics

Product net weight	1.77 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_1	≈ 56.8 mm	Outer diameter of inner ring
A	39 mm	Width of housing
A_1	14 mm	Flange width
A_3	3.2 mm	Depth of centring recess
A_5	26.5 mm	Width including end cover
B	49.2 mm	Width of inner ring
B_1	49.2 mm	Overall bearing width
B_4	8 mm	Distance from locking device side face to thread centre
D_{b1}	102 mm	Top external diameter
D_{b2}	111 mm	Base external diameter
D_c	98.4 mm	Diameter of housing centering recess
H	178.5 mm	Overall height
J	148.5 mm	Distance between attachment bolts
L	111 mm	Overall length
N	16 mm	Diameter of attachment bolt hole
s_1	30.2 mm	Distance from locking device side face to raceway centre
T	54.2 mm	Overall width

THREADED HOLE

R_G	1/4-28 UNF	Housing thread for grease fitting
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R_1	24.5 mm	Axial position of the housing thread
R_a	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	120.5 mm	Distance of dowel pins
J_7	18 mm	Axial offset of dowel pins
N_4	2 mm	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	33.2 kN
Basic static load rating	C_0	21.6 kN
Fatigue load limit	P_u	0.915 kN
Limiting speed		4 300 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G_2	M8x1
Hexagonal key size for set screw		4 mm
Recommended tightening torque for set screw		6.5 N·m
Recommended diameter for attachment bolts, mm	G	14 mm
Recommended diameter for attachment bolts, inch	G	0.5625 in

Compatible products

Component

Oval flanged housing for insert bearings, cast iron

[FYTB 509 M](#)

Insert bearing with set screw locking and extended inner ring

[YAR 209-2F](#)

Recommended product

End cover for bearing units

[ECY 209](#)



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