



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

FYTB 20 WF

Oval flanged ball bearing unit with eccentric 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 eccentric locking, and are intended primarily for use in applications where the direction of rotation is constant. 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	10 mm
Shaft diameter	20 mm
Housing overall width	29.5 mm
Width, total	45.6 mm
Centre distance between bolt holes	90 mm
Bearing width, total	43.7 mm

Performance

Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	8 500 r/min
Note	Limiting speed with shaft tolerance h6

Properties

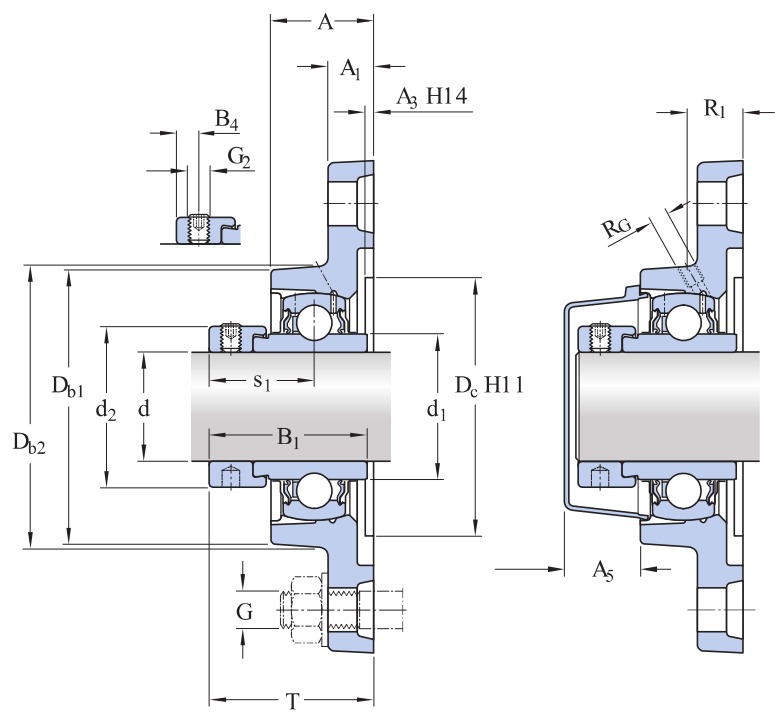
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Eccentric collar
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing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

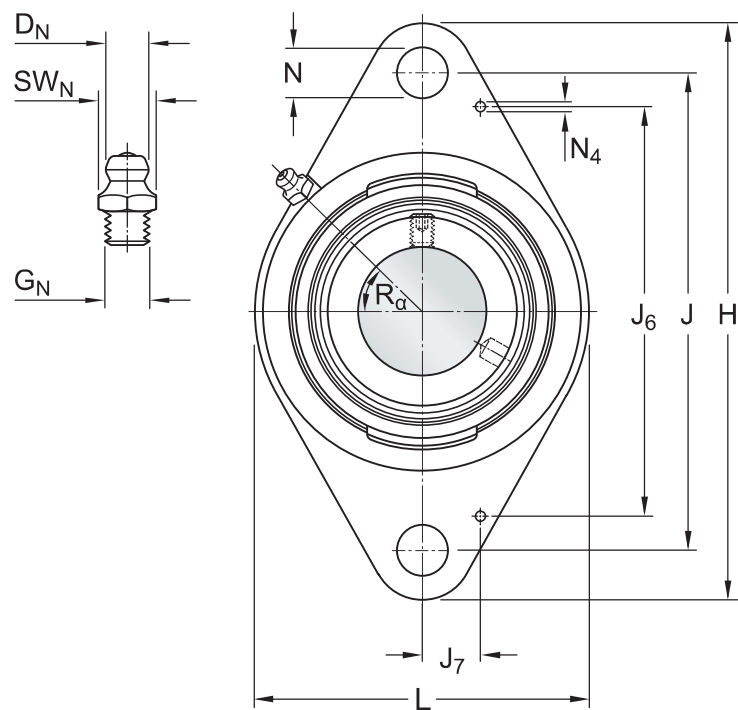
Logistics

Product net weight	0.485 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Compliance with standard	ISO
Purpose specific	For material handling applications; For air 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	20 mm	Bore diameter
d ₁	≈ 28.2 mm	Outer diameter of inner ring
d ₂	32.4 mm	Outside diameter of locking ring
A	29.5 mm	Width of housing
A ₁	11 mm	Flange width
A ₃	3.2 mm	Depth of centring recess
A ₅	20.5 mm	Width including end cover
B	34.2 mm	Width of inner ring
B ₁	43.7 mm	Overall bearing width
B ₄	4.75 mm	Distance from locking device side face to thread centre
D _{b1}	58 mm	Top external diameter
D _{b2}	60.5 mm	Base external diameter
D _c	50.8 mm	Diameter of housing centering recess
H	112 mm	Overall height
J	90 mm	Centre distance between bolt holes
L	60.5 mm	Overall length
N	11.5 mm	Diameter of attachment bolt hole

s_1	26.6 mm	Distance from locking device side face to raceway centre
T	45.6 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

DOWEL PINS

J_6	74 mm	Distance of dowel pins
J_7	11.5 mm	Axial offset of dowel pins
N_4	2 mm	Recommended diameter for dowel pins

THREADED HOLE

R_G	1/4-28 UNF	Housing thread for grease fitting
R_1	20 mm	Axial position of the housing thread
R_a	45 °	Angular position of the housing thread

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.55 kN
Fatigue load limit	P_u	0.28 kN
Limiting speed		8 500 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G ₂	M6x0.75
Hexagonal key size for set screw		3 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

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 504 M
Insert bearing with an eccentric locking collar and extended inner ring	YEL 204-2F

Recommended product

End cover for bearing units	ECY 204
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More Information

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