

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

FYTB 20 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	20 mm
Housing overall width	29.5 mm
Width, total	37.3 mm
Centre distance between bolt holes	90 mm
Bearing width, total	31 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

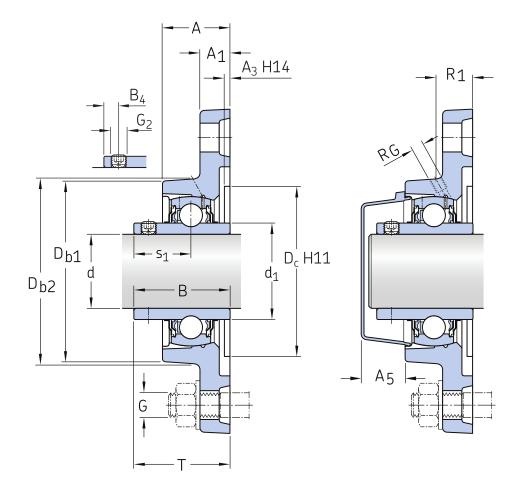
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal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

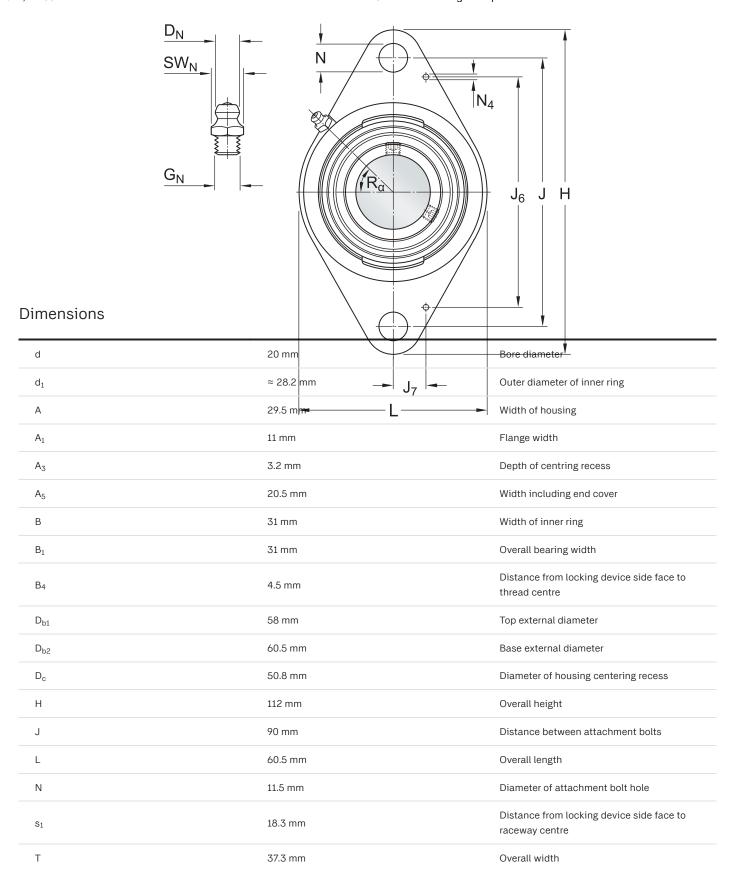
Logistics

Product net weight	0.43 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





THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R_1	20 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	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

Calculation data

Basic dynamic load rating	С	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

Mass

Mass bearing unit 0.45 kg

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

Compatible products

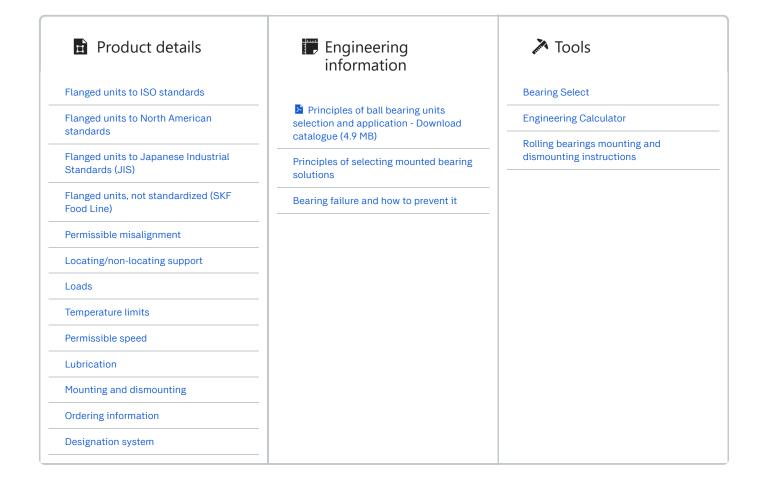
Component

Oval flanged housing for insert bearings, cast iron	FYTB 504 M
Insert bearing with set screw locking and extended inner ring	YAR 204-2F

Recommended product

End cover for bearing units ECY 204

More Information





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