

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

Bearing width, total	1.22 in
Centre distance between bolt holes	3.543 in
Housing overall width	1.161 in
Shaft diameter	0.787 in

Performance

Basic dynamic load rating	2 855 lbf
Basic static load rating	1 472 lbf
Limiting speed	8 500 r/min
Note	Limiting speed with shaft tolerance h6

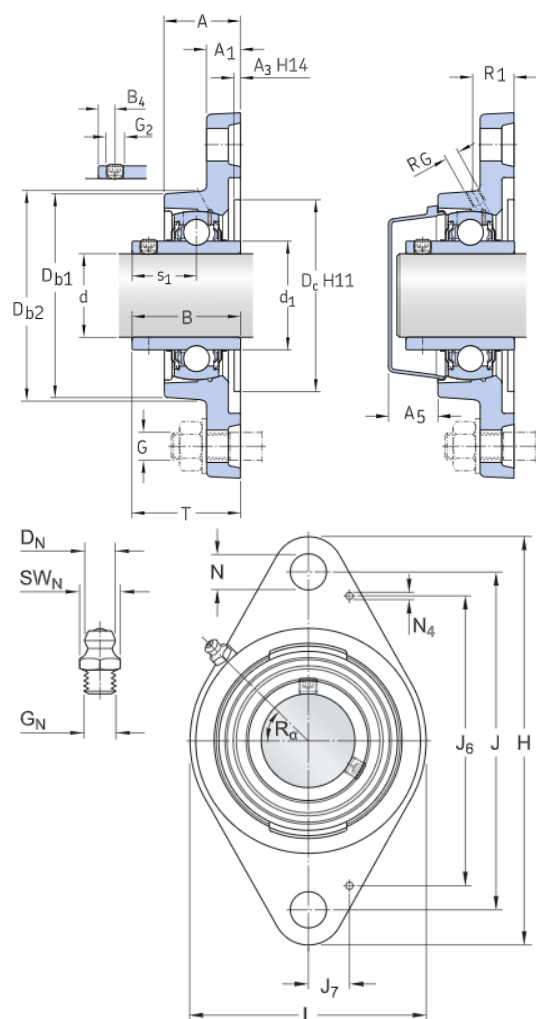
Properties

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



Dimensions

d	0.787 in	Bore diameter
d ₁	≈ 1.11 in	Outer diameter of inner ring
A	1.161 in	Overall width
A ₁	0.433 in	Flange width
A ₃	0.126 in	Depth of centring recess
A ₅	0.807 in	Width including end cover
B	1.22 in	Width of inner ring
B ₄	0.177 in	Distance from locking device side face to thread centre
D _{b1}	2.283 in	Top external diameter
D _{b2}	2.382 in	Base external diameter
D _c	2 in	Diameter of housing centering recess
H	4.409 in	Overall height
J	3.543 in	Distance between attachment bolts

L	2.382 in	Overall length
N	0.453 in	Diameter of attachment bolt hole
s ₁	0.72 in	Distance from locking device side face to raceway centre
T	1.469 in	Overall unit width

Threaded hole

R _c	1/4-28 UNF	Housing thread for grease fitting
R ₁	0.787 in	Axial position of the housing thread
R ₀	45 °	Angular position of the housing thread

Grease fitting

D _f	0.256 in	Diameter of head sphere of grease fitting
S\	0.276 in	Hexagonal key size for the grease fitting
G _f	1/4-28 SAE-LT	Thread of grease fitting

Dowel pins

J ₆	2.913 in	Distance of dowel pins
J ₇	0.453 in	Axial offset of dowel pins
N ₄	0.079 in	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	2 855 lbf
Basic static load rating	C ₀	1 472 lbf
Fatigue load limit	P _u	63 lbf
Limiting speed		8 500 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	0.992 lb
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Mounting information

Set screw	G ₂	M6x0.75
Hexagonal key size for set screw		0.118 in
Recommended tightening torque for set screw		35.403 lbf-in
Recommended diameter for attachment bolts, mm	G	10.008 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

Included products

Housing	FYTB 504 M
Bearing	YAR 204-2F

Associated products

End cover	ECY 204
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