

# FYTB 20 TF/VA201



Oval flanged ball bearing unit with set screw locking, high temperature, cast iron housing, ISO

These oval flanged ball bearing units are designed for high temperature applications and are compliant with ISO standards. They consist of a high temperature 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 applications
- Accommodate relatively heavy loads
- Cost-effective

## Overview

### Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	90 mm
Housing overall width	29.5 mm
Shaft diameter	20 mm

### Performance

Basic dynamic load rating	12 700 kN
Basic static load rating	6.55 kN
Limiting speed	130 r/min
Maximum operating temperature	250 °C

### Properties

Bore type	Cylindrical
Coating	Zinc-coated housing and manganese phosphate coated bearing
Fastening bolt hole type	Plain
Flanged housing type	Oval
Grease fitting	Without
Housing type	Flanged
Lubricant	Solid lubricant
Material, bearing	High temperature steel
Material, housing	Cast iron
Number of	2

bolt holes  
for fasteners

Relubrication hole	Without
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Retaining feature, inner ring	Set screws
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Rubber seating ring	Without
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Sealing type	Non-contact
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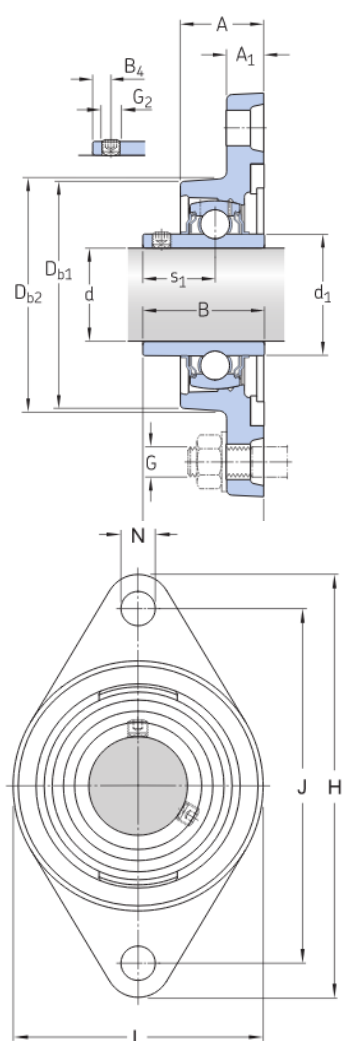
Sealing, bearing	Shield and flinger on both sides
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Sealing, unit	Without
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# Technical Specification

Running in required

Yes



## Dimensions

d	20 mm	Shaft diameter
d <sub>1</sub>	≈ 28.2 mm	Shoulder diameter inner ring
A	29.5 mm	Height housing
A <sub>1</sub>	11 mm	Step height
B	31 mm	Width inner ring
B <sub>4</sub>	4.5 mm	Distance from locking device side face to thread centre
D <sub>b1</sub>	58 mm	Top external diameter
D <sub>b2</sub>	60.5 mm	Base external diameter
H	112 mm	Overall width
J	90 mm	Distance between attachment bolts
L	60.5 mm	Overall length
N	11.5 mm	Hole diameter
s <sub>1</sub>	18.3 mm	Distance from locking device side face to raceway centre
T	37.3 mm	Overall width

## Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C <sub>0</sub>	6.55 kN
Limiting speed		130 r/min

Operating temperature T max. 250 °C

## Mass

Mass bearing unit	0.45 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
Attachment bolts, recommended metric size	G	10 mm
Attachment bolts, recommended inch size	G	0.375 in

## Included products

Bearing	YAR 204-2F/VA201
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