



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

FYK 20 TR

Square flanged ball bearing unit with set screw locking and extended inner ring, composite housing, ISO

These square flanged ball bearing units are compliant with ISO standards. The unit consists of an insert bearing, with an extended inner ring and set screw locking, and is suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a composite 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.

- Chemical resistant
- Pre-lubricated for life
- Lightweight
- Strong

Overview

Dimensions

Attachment bolt diameter	10 mm
Shaft diameter	20 mm
Housing overall width	30 mm
Centre distance between bolt holes	63.5 mm
Bearing width, total	31 mm

Performance

Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	5 000 r/min
Note	Limiting speed with shaft tolerance h6

Properties

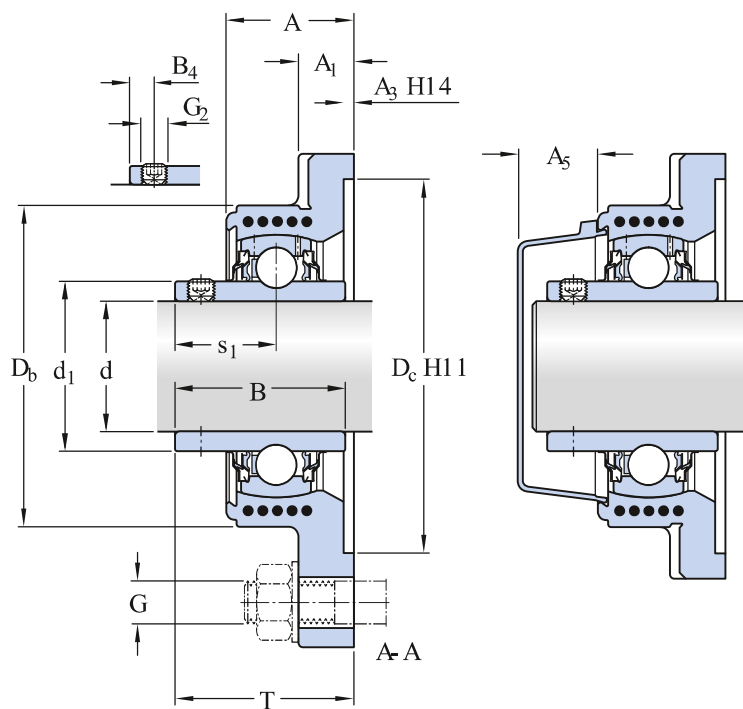
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Composite
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, multiple
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

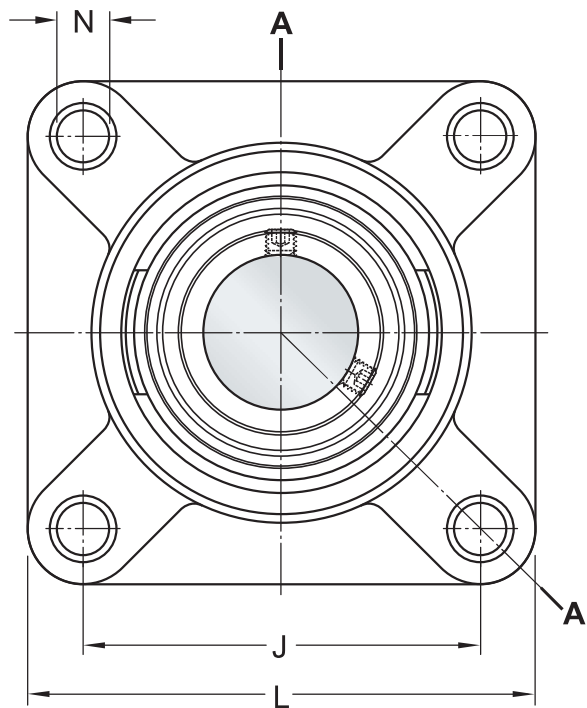
Logistics

Product net weight	0.266 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Compliance with standard	ISO
Purpose specific	For material handling applications
Material, housing	Composite
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, multiple
Sealing, unit	Optional end cover
Coating	Without





Dimensions

d	20 mm	Bore diameter
d ₁	≈ 28.2 mm	Outer diameter of inner ring
A	30 mm	Width of housing
A ₁	15 mm	Flange width
A ₃	3.2 mm	Depth of centring recess
A ₅	20 mm	Standout of end cover
B	31 mm	Width of inner ring
B ₁	31 mm	Overall bearing width
B ₄	4.5 mm	Distance from locking device side face to thread centre
D _b	59 mm	Top external diameter
D _c	68.3 mm	Diameter of housing centering recess
J	63.5 mm	Centre distance between bolt holes
L	86 mm	Overall length
N	12.3 mm	Diameter of attachment bolt hole
s ₁	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 ₀	6.55 kN
Fatigue load limit	P _u	0.28 kN
Limiting speed		5 000 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

Square flanged housing for insert bearings, composite	FYK 504
Insert bearing with set screw locking and extended inner ring	YAR 204-2RF

Recommended product

End cover for bearing units	ECY 204
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More Information

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



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