

FYK 25 TR

Flanged ball bearing unit with composite or cast metal housing

Flanged ball bearing units consisting of an insert bearing mounted in a composite or cast metal housing that can be bolted to a machine wall or frame. In addition to being part of a unit, some flanged housings for insert bearings are available as separate components. The SKF assortment includes ball bearing units compliant with several industrial standards, meeting many requirements regarding bolt patterns and mechanisms for locking onto the shaft.

- Ready to mount
- Lubricated and sealed bearings
- Quick locking on the shaft
- Large variety of housing shapes, housing materials, and locking methods
- Concentric locking options for high speeds and low vibration

Overview

Dimensions

Bearing width, total	34.1 mm
Centre distance between bolt holes	70 mm
Housing overall width	31 mm
Shaft diameter	25 mm

Performance

Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	4 300 r/min

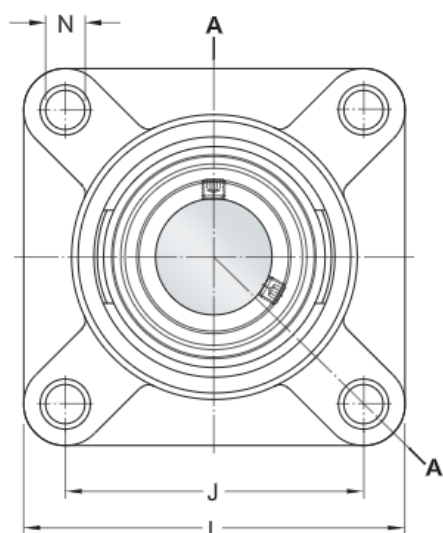
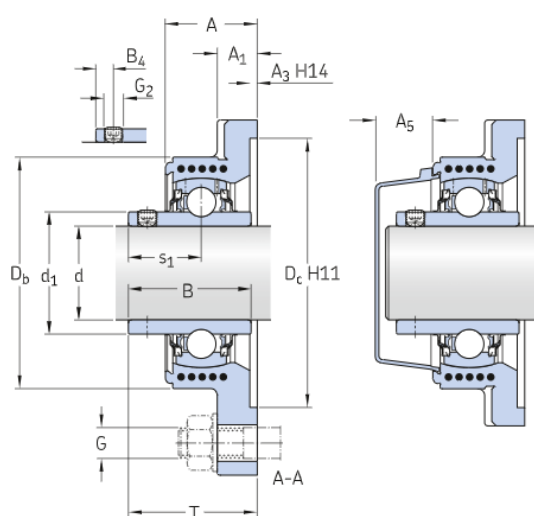
Properties

Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Flanged housing type	Square
Housing type	Flanged
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Composite
Number of bolt holes for fasteners	4
Relubrication hole	Without
Relubrication nipple	Without
Retaining feature, inner ring	Set screws

Rubber seating ring	Without
Sealing type	Contact, multiple
Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Without

Technical Specification

Compliance with standard	ISO
Purpose specific	For material handling applications
Housing material	Composite
Sealing solution	Multiple seals



Dimensions

d	25 mm	Bore diameter
d ₁	≈ 33.74 mm	Outer diameter inner ring
A	31 mm	Overall width
A ₁	15 mm	Flange width
A ₃	3.2 mm	Depth of centring recess
A ₅	20 mm	Standout of end cover
B	34.1 mm	Width of inner ring
B ₄	5 mm	Distance from locking device side face to thread centre
D _b	65 mm	Top external diameter
D _c	74.6 mm	Diameter of housing centering recess
J	70 mm	Distance between attachment bolts
L	95 mm	Overall length
N	12.3 mm	Diameter of attachment bolt hole
s ₁	19.8 mm	Distance from locking device side face to raceway centre
T	38.8 mm	Overall unit width

Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN

Limiting speed	4 300 r/min
with shaft tolerance h6	

Mass

Mass bearing unit	0.31 kg
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Mounting information

Set screw	G ₂	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 Nm
Recommended diameter for attachment bolts, mm	G	10 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

Included products

Housing	FYK 505
Bearing	YAR 205-2RF

Associated products

End cover	ECY 205
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