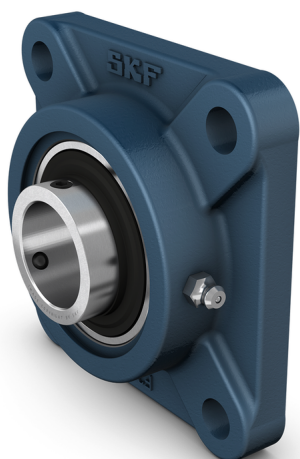




FYJ 45 TF

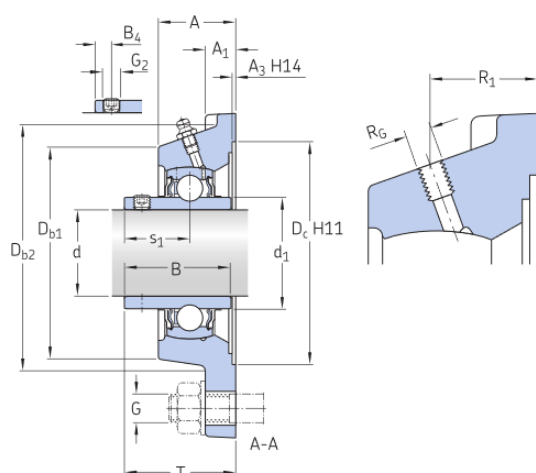
Square flanged ball bearing units

The values depend on the included bearing:

table 1, table 2, table 3,
table 4

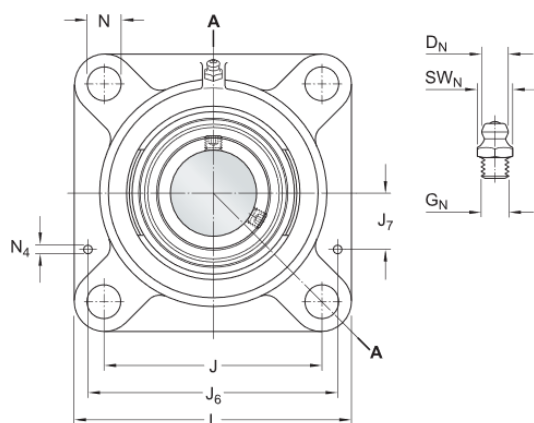
Technical specification

Compliance with standard	JIS
Purpose specific	For material handling applications
Housing material	Cast iron
Sealing solution	Standard seals with additional flingers



DIMENSIONS

d	45 mm	Bore diameter
d ₁	≈ 56.8 mm	Outer diameter inner ring
A	38 mm	Overall width
A ₁	16 mm	Flange width
A ₃	3.2 mm	Depth of centring recess
B	49.2 mm	Width of inner ring
B ₄	8 mm	Distance from locking device side face to thread centre
D _{b1}	107 mm	Top external diameter
D _{b2}	108 mm	Base external diameter
D _c	119.1 mm	Diameter of housing centering recess
J	105 mm	Distance between attachment bolts
L	137 mm	Overall length



N	16 mm	Diameter of attachment bolt hole
s ₁	30.2 mm	Distance from locking device side face to raceway centre
T	52.2 mm	Overall unit width

GREASE FITTING

DN	6.5 mm	Diameter of head sphere of grease fitting
SW _N	7 mm	Hexagonal key size for the grease fitting
GN	1/4-28 SAE-LT	Thread of the grease fitting

THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R ₁	22 mm	Axial position of the housing thread

DOWEL PINS

J ₆	123 mm	Distance of dowel pins
J ₇	33.5 mm	Axial offset of dowel pins
N ₄	4 mm	Recommended diameter for dowel pins

CALCULATION DATA

Basic dynamic load rating	C	33.2 kN
Basic static load rating	C ₀	21.6 kN
Fatigue load limit	P _u	0.915 kN
Limiting speed		4 300 r/min
with shaft tolerance h6		

MASS

Mass bearing unit	2.1 kg
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MOUNTING INFORMATION

Set screw	G ₂	M8x1
Hexagonal key size for set screw		4 mm
Recommended tightening torque for set screw		6.5 Nm
Recommended diameter for attachment bolts, mm	G	14 mm
Recommended diameter for attachment bolts, inch	G	0.563 in

INCLUDED PRODUCTS

Housing	FYJ 509
Bearing	YAR 209-2F

More information

Product details

[Flanged units to ISO standards](#)

[Flanged units to North American standards](#)

[Flanged units to Japanese Industrial Standards \(JIS\)](#)

[Flanged units, not standardized \(SKF Food Line\)](#)

[Permissible misalignment](#)

[Locating/non-locating support flanged](#)

[Loads](#)

[Temperature limits](#)

[Permissible speed](#)

[Lubrication](#)

[Mounting and dismounting](#)

[Ordering information](#)

[Designation system](#)

Engineering information

[Principles of ball bearing units selection and application - Download catalogue \(4.9 MB\)](#)

[Principles of selecting mounted bearing solutions](#)

[Bearing failure and how to prevent it](#)

Tools

[Bearing Select](#)

[Engineering Calculator](#)

[Rolling bearings mounting and dismounting instructions](#)

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