

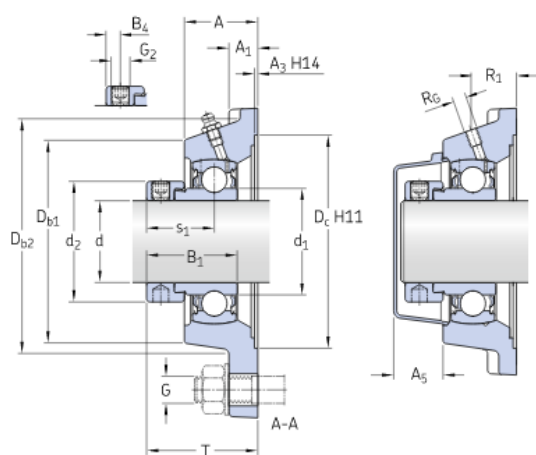


FY 45 FM

Square flanged ball bearing units

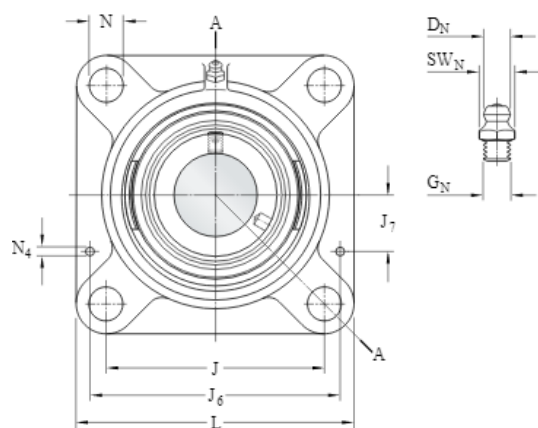
Technical specification

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



DIMENSIONS

d	45 mm
d ₁	≈ 56.8 mm
d ₂	62 mm
A	39 mm
A ₁	14 mm
A ₃	3.2 mm
A ₅	26.5 mm
B ₁	43.7 mm
B ₄	6.75 mm
D _{b1}	102 mm
D _{b2}	112 mm
D _c	119.1 mm
J	105 mm



L	137 mm
N	16 mm
s ₁	32.7 mm
T	56.7 mm

GREASE FITTING

D _N	6.5 mm
SW _N	7 mm
G _N	1/4-28 SAE-LT

THREADED HOLE

R _G	1/4-28 UNF
R ₁	24.5 mm

DOWEL PINS

J ₆	123 mm
J ₇	33.5 mm
N ₄	4 mm

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 kg
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MOUNTING INFORMATION

Set screw	G ₂	M10x1
Hexagonal key size for set screw	N	5 mm
Recommended tightening torque for set screw		16.5 N·m
Recommended diameter for attachment bolts, mm	G	14 mm
Recommended diameter for attachment bolts, inch	G	0.563 in

INCLUDED PRODUCTS

Housing	FY 509 M
Bearing	YET 209

ASSOCIATED PRODUCTS

End cover	ECY 209
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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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