

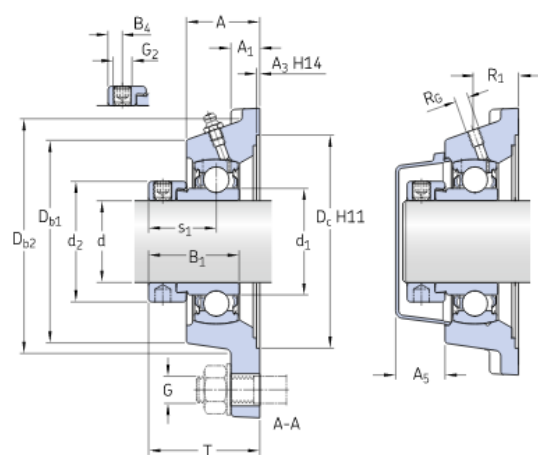


## FY 50 FM

### Square flanged ball bearing units

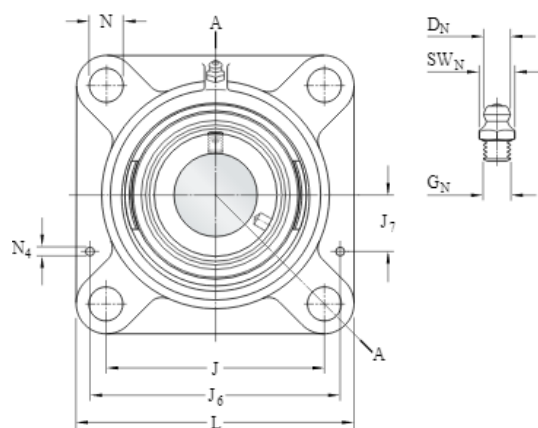
#### Technical specification

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



#### DIMENSIONS

d	50 mm
d <sub>1</sub>	≈ 62.51 mm
d <sub>2</sub>	67.2 mm
A	43 mm
A <sub>1</sub>	15 mm
A <sub>3</sub>	3.2 mm
A <sub>5</sub>	33 mm
B <sub>1</sub>	43.7 mm
B <sub>4</sub>	6.75 mm
D <sub>b1</sub>	107 mm
D <sub>b2</sub>	118 mm
D <sub>c</sub>	125.4 mm
J	111 mm



L	143 mm
N	18 mm
s <sub>1</sub>	32.7 mm
T	60.7 mm

## GREASE FITTING

D <sub>N</sub>	6.5 mm
SW <sub>N</sub>	7 mm
G <sub>N</sub>	1/4-28 SAE-LT

## THREADED HOLE

R <sub>G</sub>	1/4-28 UNF
R <sub>1</sub>	28.5 mm

## DOWEL PINS

J <sub>6</sub>	129 mm
J <sub>7</sub>	35.5 mm
N <sub>4</sub>	4 mm

## CALCULATION DATA

Basic dynamic load rating	C	35.1 kN
Basic static load rating	C <sub>0</sub>	23.2 kN
Fatigue load limit	P <sub>u</sub>	0.98 kN
Limiting speed		4 000 r/min
with shaft tolerance h6		

## MASS

Mass bearing unit	2.2 kg
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## MOUNTING INFORMATION

Set screw	G <sub>2</sub>	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	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

## INCLUDED PRODUCTS

Housing	FY 510 M
Bearing	YET 210

## ASSOCIATED PRODUCTS

End cover	ECY 210
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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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