

 SYF 30 FM - Ball bearing units

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

## SYF 30 FM

**Short base pillow block ball bearing unit with narrow inner ring and eccentric locking collar, cast iron**

Short base pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing that can be bolted to a support surface. This variant is intended for use in applications where the direction of rotation is constant. It has a narrow inner ring and is locked onto the shaft by an eccentric locking collar, making it easy to mount.

- Strong
- Narrow design
- Ready to mount
- Lubricated and sealed bearing
- Designed for rotation in one direction
- Accommodate static initial misalignment

## Overview

### Dimensions

Shaft diameter	30 mm
Centre height (pillow block)	42.9 mm
Housing overall width	40 mm
Centre distance between bolt holes	76.2 mm
Bearing width, total	35.7 mm

### Performance

Basic dynamic load rating	19.5 kN
Basic static load rating	11.2 kN
Limiting speed	6 300 r/min
Note	Limiting speed with shaft tolerance h6

### Properties

Housing type	Pillow block
Number of bolt holes for fasteners	2
Fastening bolt hole type	Threaded
Retaining feature, inner ring	Eccentric collar
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

### Logistics

Product net weight	1.01 kg
--------------------	---------

eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Compliance with standard	Not standardized
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without

Dimensions - SYF 30 FM

 Dimensions - SYF 30 FM

Dimensions

d	30 mm	Bore diameter
d <sub>1</sub>	≈ 39.7 mm	Shoulder diameter of inner ring
d <sub>2</sub>	44.1 mm	Outside diameter of locking ring
A	40 mm	Base width
A <sub>1</sub>	25 mm	Top width
B <sub>1</sub>	35.7 mm	Overall bearing width
B <sub>4</sub>	5.95 mm	Distance from locking device side face to thread centre
H	42.9 mm	Height of spherical seat centre
H <sub>2</sub>	82 mm	Overall height
J	76.2 mm	Centre distance between bolt holes
L	98 mm	Overall length
s <sub>1</sub>	26.7 mm	Distance from locking device side face to raceway centre

GREASE FITTING

D <sub>N</sub>	6.5 mm	Diameter of head sphere of grease fitting
----------------	--------	---

SW <sub>N</sub>	7 mm	Hexagonal key size for the grease fitting
G <sub>N</sub>	1/4-28 SAE-LT	Thread of grease fitting

## THREADED HOLE

R <sub>G</sub>	1/4-28 UNF	Housing thread for the grease fitting
R <sub>1</sub>	3 mm	Axial position of the housing thread
R <sub>a</sub>	45 °	Angular position of the housing thread

## Calculation data

Basic dynamic load rating	C	19.5 kN
Basic static load rating	C <sub>0</sub>	11.2 kN
Fatigue load limit	P <sub>u</sub>	0.475 kN
Limiting speed		6 300 r/min
		Limiting speed with shaft tolerance h6

## Mounting information

Thread for attachment bolts	G	M10
Thread length	G <sub>1</sub>	15 mm
Set screw	G <sub>2</sub>	M8x1
Hexagonal key size for set screw		4 mm
Recommended tightening torque for set screw		6.5 N·m

## 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

Insert bearing with an eccentric locking collar and narrow inner ring	<a href="#">YET 206</a>
Short base pillow block housing for insert bearings, cast iron	<a href="#">SYF 506</a>

More Information

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



# Terms of use

By accessing and using this website / app owned and published by AB SKF (publ.) (556007-3495 · Gothenburg) ("SKF"), you agree to the following terms and conditions:

## Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app.

Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service.

Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

## Third Party Services

When viewing YouTube content via the SKF website(s) (i.e. using [YouTube API Services](#)), you agree to be bound by the [YouTube Terms of Service](#).

## Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website /app includes certain images used under license from Shutterstock, Inc.

## Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

## Changes

SKF reserves the right to make changes or additions to this website / app at any time.