

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

SYF 35 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	35 mm
Centre height (pillow block)	47.6 mm
Housing overall width	45 mm
Centre distance between bolt holes	82.6 mm
Bearing width, total	38.9 mm

Performance

Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	5 300 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	1.34 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

d	35 mm	Bore diameter
d_1	≈ 46.1 mm	Shoulder diameter of inner ring
d_2	51.1 mm	Outside diameter of locking ring
A	45 mm	Base width
A_1	27 mm	Top width
B_1	38.9 mm	Overall bearing width
B_4	6.75 mm	Distance from locking device side face to thread centre
H	47.6 mm	Height of spherical seat centre
H_2	93 mm	Overall height
J	82.6 mm	Centre distance between bolt holes
L	103 mm	Overall length
s_1	29.4 mm	Distance from locking device side face to raceway centre

GREASE FITTING

D_N	6.5 mm	Diameter of head sphere of grease fitting

SW_N	7 mm	Hexagonal key size for the grease fitting
G_N	1/4-28 SAE-LT	Thread of grease fitting

THREADED HOLE

R_G	1/4-28 UNF	Housing thread for the grease fitting
R_1	3 mm	Axial position of the housing thread
R_α	45 °	Angular position of the housing thread

Calculation data

Basic dynamic load rating	C	25.5 kN
Basic static load rating	C_0	15.3 kN
Fatigue load limit	P_u	0.655 kN
Limiting speed		5 300 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Thread for attachment bolts	G	M10
Thread length	G_1	15 mm
Set screw	G_2	M10x1
Hexagonal key size for set screw		5 mm
Recommended tightening torque for set screw		16.5 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	YET 207
Short base pillow block housing for insert bearings, cast iron	SYF 507

More Information

Product details

- Pillow block units to ISO standards
- Pillow block units to North American standards
- Pillow block units to Japanese Industrial Standards (JIS)
- Pillow block units, not standardized (incl. SKF Food Line)
- Permissible misalignment
- Locating/non-locating support
- 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

- SKF Product select
- Bearing Frequency Calculator

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