

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

## UCPA 206

Short base pillow block ball bearing unit with extended inner ring and set screw locking, Japanese Industrial Standards

Short base pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing. This variant has threaded holes for attachment bolts and is suitable for applications where the direction of rotation is constant or alternating. It has an inner ring extended on both sides and is locked onto the shaft by tightening two set screws on the inner ring, making it easy to mount. The units are compliant with Japanese Industrial Standards (JIS).

- Optimized for applications where space is limited
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Extended inner ring for minimized shaft misalignment

## Overview

### Dimensions

Shaft diameter	30 mm
Centre height (pillow block)	42.8 mm
Housing overall width	39 mm
Centre distance between bolt holes	66 mm
Bearing width, total	38.1 mm

### Performance

Basic dynamic load rating	19.5 kN
Basic static load rating	11.4 kN
Limiting speed	5 000 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	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

### Logistics

Product net weight	0.99 kg
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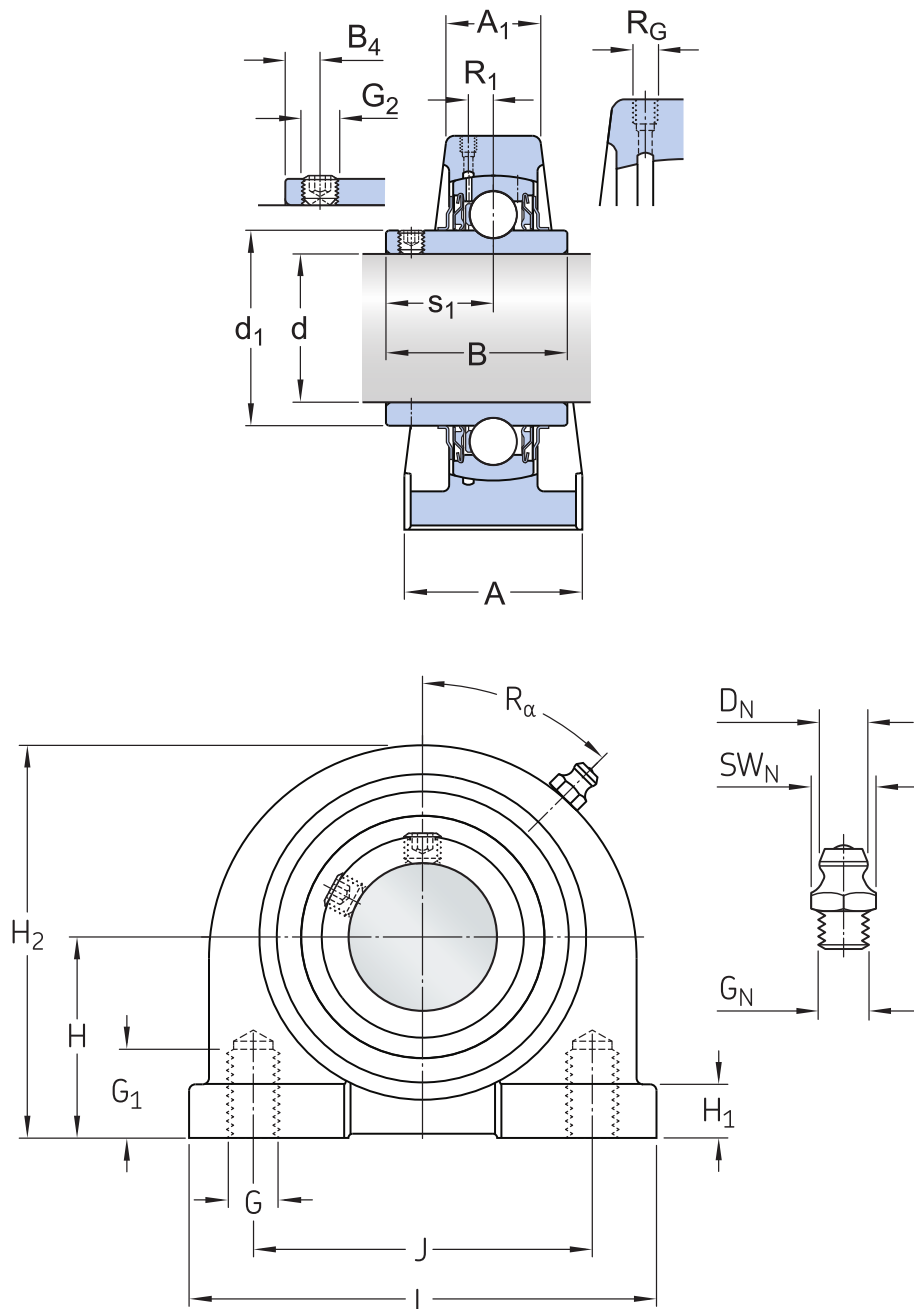
eClass code	23-05-16-02
UNSPSC code	31171536

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# Technical specification

Compliance with standard	JIS
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without



## Dimensions

d	30 mm	Bore diameter
d <sub>1</sub>	≈ 39.8 mm	Shoulder diameter of inner ring
A	39 mm	Base width
A <sub>1</sub>	19 mm	Top width
B	38.1 mm	Width of inner ring
B <sub>4</sub>	5.5 mm	Distance from locking device side face to thread centre
H	42.8 mm	Height of spherical seat centre
H <sub>1</sub>	12 mm	Foot height
H <sub>2</sub>	84 mm	Overall height
J	66 mm	Distance between attachment bolts
L	93.5 mm	Overall length
s <sub>1</sub>	22.2 mm	Distance from locking device side face to raceway centre

## THREADED HOLE

R <sub>G</sub>	1/4-28 UNF	Housing thread for the grease fitting
R <sub>1</sub>	2.5 mm	Axial position of the housing thread
R <sub>α</sub>	45 °	Angular position of the housing thread

## GREASE FITTING

D <sub>N</sub>	6.6 mm	Diameter of head sphere of grease fitting
SW <sub>N</sub>	7.94 mm	Hexagonal key size for the grease fitting
G <sub>N</sub>	1/4-28 UNF	Thread of grease fitting

## Calculation data

Basic dynamic load rating	C	19.5 kN
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Basic static load rating	$C_0$	11.4 kN
Fatigue load limit	$P_u$	0.48 kN
Limiting speed		5 000 r/min
		Limiting speed with shaft tolerance h6

## Mounting information

Thread for attachment bolts	G	M14
Thread length	$G_1$	18 mm
Set screw	$G_2$	M6x1
Hexagonal key size for set screw		3.05 mm
Recommended tightening torque for set screw		4 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



## 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 dismantling](#)

[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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