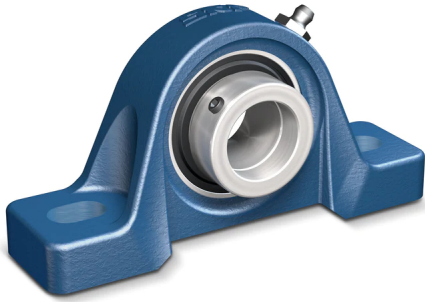


# P2BL 207-WF



## Pillow block bearing unit with composite or cast metal housing

Pillow (plummer) block bearing units consisting of an insert bearing mounted in a composite or cast metal housing that can be bolted to a support surface. In addition to being part of a unit, some pillow block housings for insert bearings are available as separate components. The SKF assortment includes units that are compliant with several industrial standards and meet many requirements.

- Ready to mount
- Lubricated and sealed bearings
- Quick locking on the shaft
- Large variety of housing shapes, housing materials, and locking methods
- Concentric locking options for high speeds and low vibration

## Overview

### Dimensions

Bearing width, total	3.063 in
Centre distance between bolt holes	7.407 in
Centre height (pillow block)	2.687 in
Housing overall width	2.425 in
Shaft diameter	2.438 in

### Performance

Basic dynamic load rating	11 847 lbf
Basic static load rating	8 093 lbf
Limiting speed	3 400 r/min
Note	Limiting speed with shaft tolerance h6

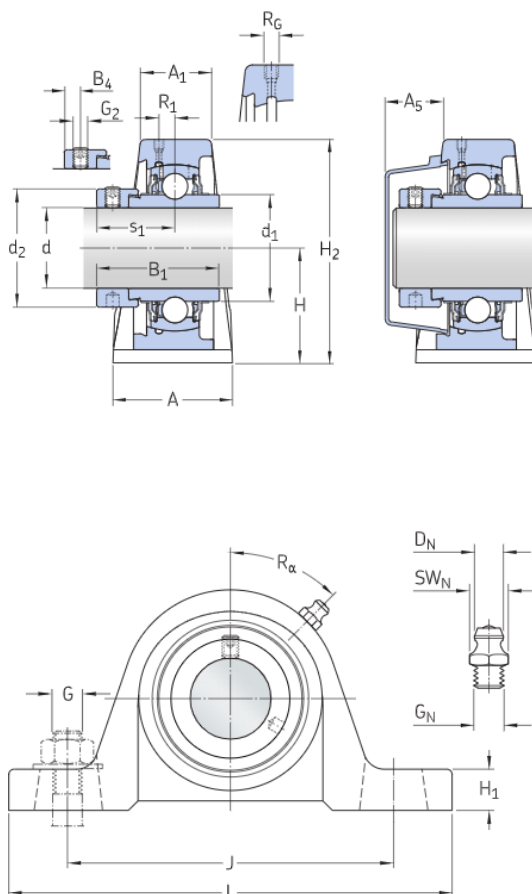
### Properties

Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Grease fitting	With
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With
Retaining feature, inner ring	Eccentric collar

Rubber seating ring	Without
Sealing type	Contact, standard
Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Optional end cover

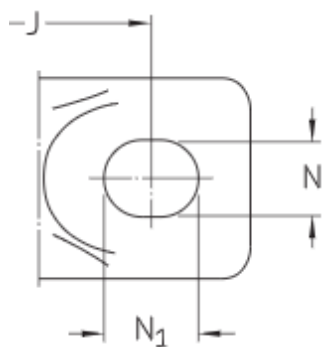
# Technical Specification

Compliance with standard	North American standard
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	Optional end cover
Coating	Without



## Dimensions

d	2.438 in	Bore diameter
d <sub>1</sub>	≈ 2.978 in	Shoulder diameter of inner ring
d <sub>2</sub>	3.228 in	Outside diameter of locking ring
A	2.425 in	Base width
A <sub>1</sub>	1.35 in	Top width
A <sub>5</sub>	1.398 in	Standout of end cover
B <sub>1</sub>	3.063 in	Overall bearing width
B <sub>4</sub>	0.313 in	Distance from locking device side face to thread centre
H	2.687 in	Height of spherical seat centre
H <sub>1</sub>	0.813 in	Foot height
H <sub>2</sub>	5.5 in	Overall height
J	7.407 in	Distance between attachment bolts
J	max. 7.939 in	Distance between attachment bolts
J	min. 6.876 in	Distance between attachment bolts
L	9.5 in	Overall length
N	0.781 in	Diameter of attachment bolt hole
N <sub>1</sub>	1.157 in	Length of attachment bolt hole
s <sub>1</sub>	1.843 in	Distance from locking device side face to



raceway centre

#### Threaded hole

$R_c$ 1/8-27 NPT	Housing thread for the grease fitting
$R_1$ 0.157 in	Axial position of the housing thread
$R_0$ 45 °	Angular position of the housing thread

#### Grease fitting

$D_f$ 0.259 in	Diameter of head sphere of grease fitting
$S_k$ 0.438 in	Hexagonal key size for the grease fitting
$G_f$ 1/8-27 NPT	Thread of grease fitting

### Calculation data

Basic dynamic load rating	C	11 847 lbf
Basic static load rating	$C_0$	8 093 lbf
Fatigue load limit	$P_u$	344 lbf
Limiting speed		3 400 r/min
		Limiting speed with shaft tolerance h6

### Mass

Mass bearing unit	10.362 lb
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### Mounting information

Set screw	$G_2$	7/16-20 UNF
Hexagonal key size for set screw		0.219 in
Recommended tightening torque for set screw		252.246 lbf-in
Recommended diameter for attachment bolts, mm	G	16.002 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

## Included products

Housing	P2BL 512
Bearing	YEL 212-207-2F

## Associated products

End cover	ECY 212
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