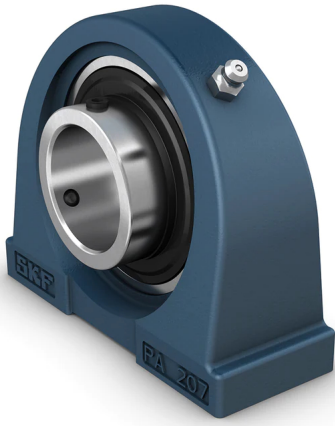


# P2BT 104S-TF



Short base pillow block ball bearing unit with extended inner ring and set screw locking, cast iron, North American standards

Short base pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing. This variant has threads for attachment bolts and is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening a set screw on the inner ring, making it easy to mount.

- Strong
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

## Overview

### Dimensions

Bearing width, total	1.5 in
Centre distance between bolt holes	3 in
Centre height (pillow block)	1.689 in
Housing overall width	1.5 in
Shaft diameter	1.25 in

### Performance

Basic dynamic load rating	4 384 lbf
Basic static load rating	2 518 lbf
Limiting speed	6 300 r/min
Note	Limiting speed with shaft tolerance h6

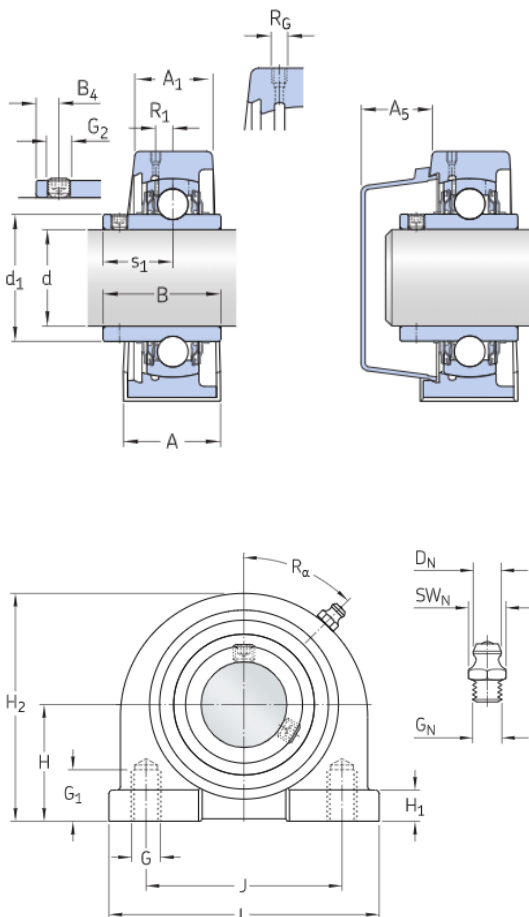
### Properties

Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Threaded
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	Set screws
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	1.25 in	Bore diameter
d <sub>1</sub>	≈ 1.563 in	Shoulder diameter of inner ring
A	1.5 in	Base width
A <sub>1</sub>	0.748 in	Top width
A <sub>5</sub>	0.787 in	Standout of end cover
B	1.5 in	Width of inner ring
B <sub>4</sub>	0.197 in	Distance from locking device side face to thread centre
H	1.689 in	Height of spherical seat centre
H <sub>1</sub>	0.469 in	Foot height
H <sub>2</sub>	3.374 in	Overall height
J	3 in	Distance between attachment bolts
L	4 in	Overall length
s <sub>1</sub>	0.874 in	Distance from locking device side face to raceway centre

Threaded hole

$R_c$ 1/8-27 NPT	Housing thread for the grease fitting
$R_1$ 0.043 in	Axial position of the housing thread
$R_o$ 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	$C$	4 384 lbf
Basic static load rating	$C_0$	2 518 lbf
Fatigue load limit	$P_u$	107 lbf
Limiting speed		6 300 r/min
		Limiting speed with shaft tolerance h6

### Mass

Mass bearing unit	2.535 lb
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### Mounting information

Thread for attachment bolts	$G$	7/16-14 UNC
Thread length	$G_1$	0.626 in
Set screw	$G_2$	1/4-28 UNF
Hexagonal key size for set screw		0.125 in
Recommended tightening torque for set screw		35.403 lbf-in

### Included products

Housing	P2BT 506
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Bearing

YAR 206-104-2F

## Associated products

End cover

ECY 206

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