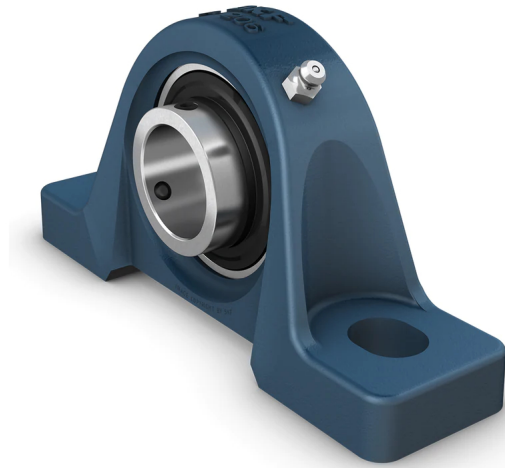


# P2BM 111-TF

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

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 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
- Designed for a constant and alternating rotation
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective



## Overview

### Dimensions

Bearing width, total	2.031 in
Centre distance between bolt holes	6.25 in
Centre height (pillow block)	2.25 in
Housing overall width	2.189 in
Shaft diameter	1.688 in

### Performance

Basic dynamic load rating	7 891 lbf
Basic static load rating	5 216 lbf
Limiting speed	4 000 r/min
Note	Limiting speed with shaft tolerance h6

### Properties

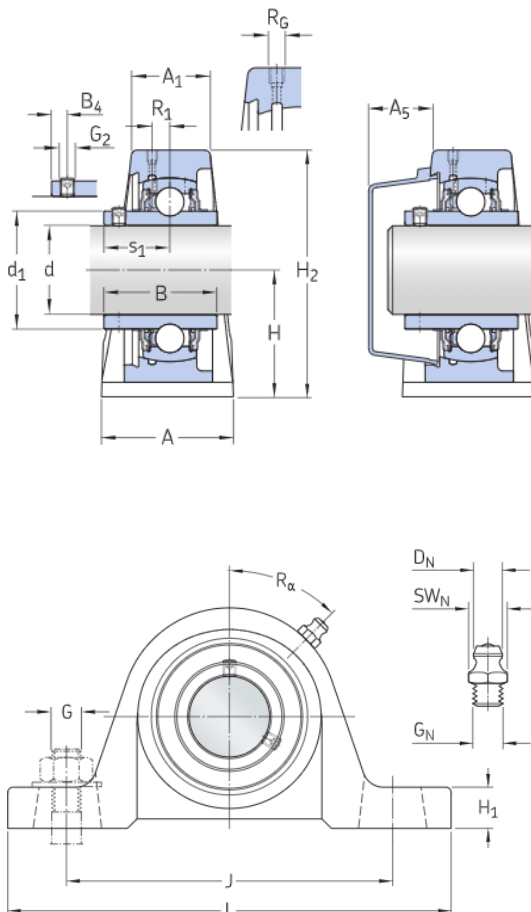
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Grease fitting	With
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With

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

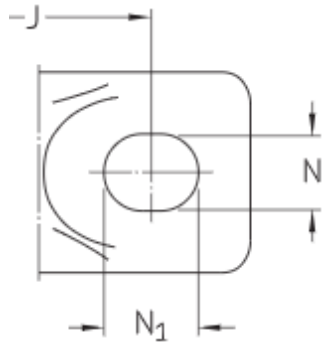
# Technical Specification

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	1.688 in	Bore diameter
d <sub>1</sub>	≈ 2.461 in	Shoulder diameter of inner ring
A	2.189 in	Base width
A <sub>1</sub>	1.209 in	Top width
A <sub>5</sub>	1.161 in	Standout of end cover
B	2.031 in	Width of inner ring
B <sub>4</sub>	0.354 in	Distance from locking device side face to thread centre
H	2.25 in	Height of spherical seat centre
H <sub>1</sub>	0.75 in	Foot height
H <sub>2</sub>	4.563 in	Overall height
J	6.25 in	Distance between attachment bolts
J	max. 6.5 in	Distance between attachment bolts
J	min. 6 in	Distance between attachment bolts
L	8.125 in	Overall length
N	0.781 in	Diameter of attachment bolt hole
N <sub>1</sub>	0.875 in	Length of attachment bolt hole
s <sub>1</sub>	1.283 in	Distance from locking device side face to raceway centre



#### Threaded hole

$R_G$ 1/8-27 NPT	Housing thread for the grease fitting
$R_1$ 0.11 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
$S_f$ 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	$C$	7 891 lbf
Basic static load rating	$C_0$	5 216 lbf
Fatigue load limit	$P_u$	220 lbf
Limiting speed		4 000 r/min
		Limiting speed with shaft tolerance h6

### Mass

Mass bearing unit	6.393 lb
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### Mounting information

Set screw	$G_2$	3/8-24 UNF
Hexagonal key size for set screw		0.188 in
Recommended tightening torque for set screw		146.037 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	P2B 510
Bearing	YAR 210-111-2F

### Associated products

End cover	ECY 210
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