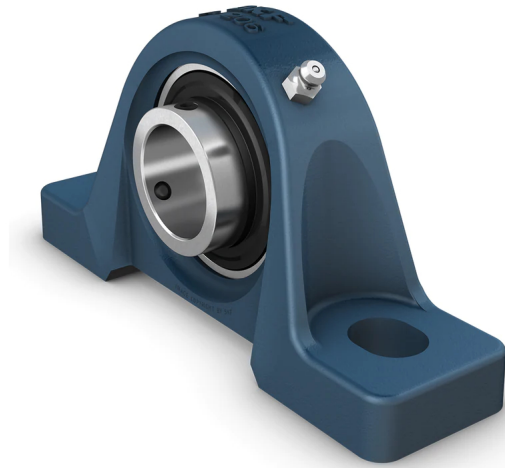


P2BM 107-TF

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	1.937 in
Centre distance between bolt holes	5.406 in
Centre height (pillow block)	2.126 in
Housing overall width	1.921 in
Shaft diameter	1.438 in

Performance

Basic dynamic load rating	6 902 lbf
Basic static load rating	4 271 lbf
Limiting speed	4 800 r/min
Note	Limiting speed with shaft tolerance h6

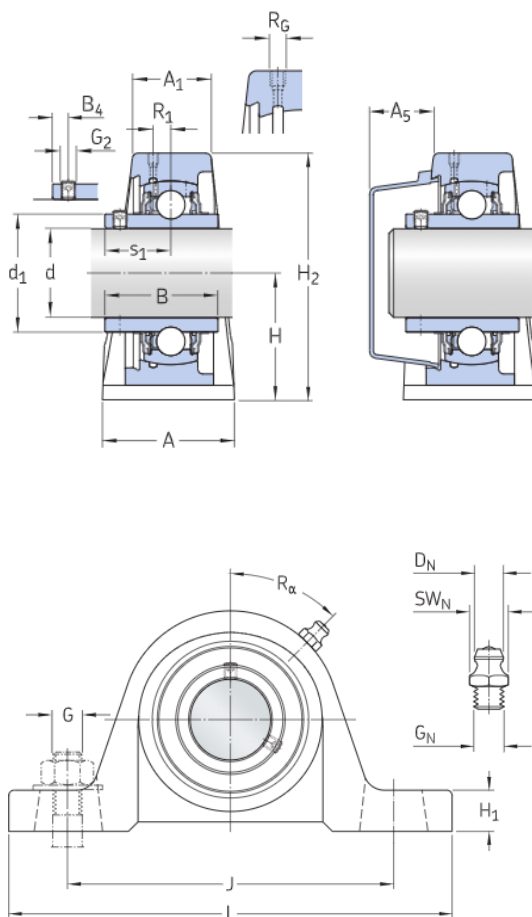
Properties

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

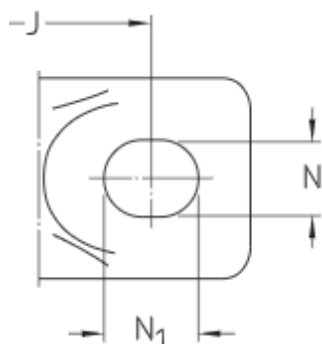
Technical Specification

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	1.438 in	Bore diameter
d ₁	≈ 2.039 in	Shoulder diameter of inner ring
A	1.921 in	Base width
A ₁	1.142 in	Top width
A ₅	0.925 in	Standout of end cover
B	1.937 in	Width of inner ring
B ₄	0.315 in	Distance from locking device side face to thread centre
H	2.126 in	Height of spherical seat centre
H ₁	0.813 in	Foot height
H ₂	4.094 in	Overall height
J	5.406 in	Distance between attachment bolts
J	max. 5.719 in	Distance between attachment bolts
J	min. 5.094 in	Distance between attachment bolts
L	7.25 in	Overall length
N	0.656 in	Diameter of attachment bolt hole
N ₁	0.813 in	Length of attachment bolt hole
s ₁	1.189 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 0.106 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	6 902 lbf
Basic static load rating	C_0	4 271 lbf
Fatigue load limit	P_u	180 lbf
Limiting speed		4 800 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	4.74 lb
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Mounting information

Set screw	G_2	5/16-24 UNF
Hexagonal key size for set screw		0.156 in
Recommended tightening torque for set screw		57.53 lbf-in
Recommended diameter for attachment bolts, mm	G	11.989 mm
Recommended diameter for attachment bolts, inch	G	0.5 in

Included products

Housing	P2B 508
Bearing	YAR 208-107-2F

Associated products

End cover	ECY 208
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