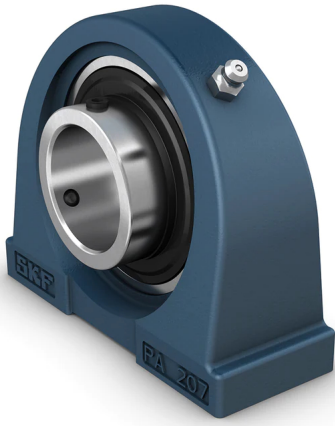


P2BT 108-TF



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	1.937 in
Centre distance between bolt holes	3.5 in
Centre height (pillow block)	1.937 in
Housing overall width	1.874 in
Shaft diameter	1.5 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

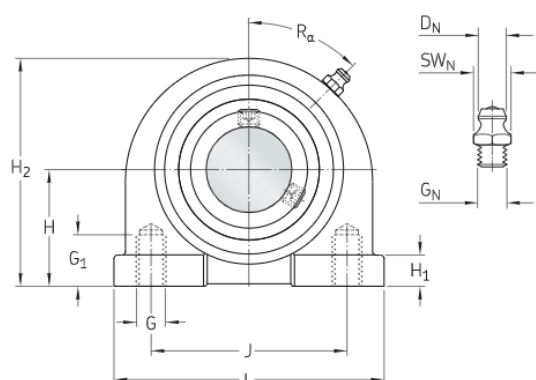
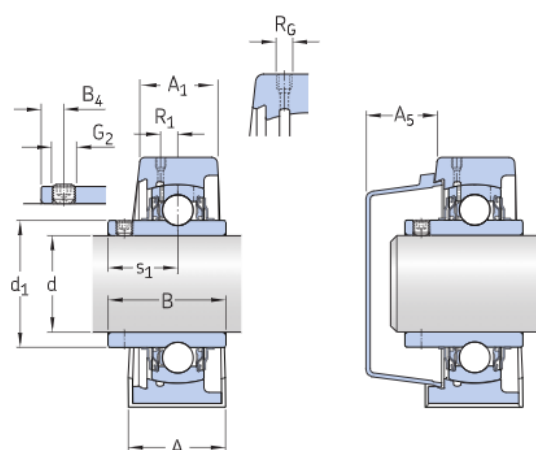
Properties

Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	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	1.5 in	Bore diameter
d_1	≈ 2.039 in	Shoulder diameter of inner ring
A	1.874 in	Base width
A_1	1.047 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	1.937 in	Height of spherical seat centre
H_1	0.5 in	Foot height
H_2	3.937 in	Overall height
J	3.5 in	Distance between attachment bolts
L	4.626 in	Overall length
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	4.189 lb
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Mounting information

Thread for attachment bolts	G	1/2-13 UNC
Thread length	G_1	0.752 in
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

Included products

Housing	P2BT 508
Bearing	YAR 208-108-2F

Associated products

End cover	ECY 208
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