

P2BTC 104-TPSS

Short base pillow block ball bearing unit with extended inner ring and set screw locking, composite

Short base pillow (plummer) block ball bearing units consist of an insert bearing mounted in a composite 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.

- Designed for a constant and alternating rotation
- Excellent corrosion resistance
- Lightweight
- Recyclable

Overview

Dimensions

Bearing width, total	1.689 in
Centre distance between bolt holes	3.248 in
Centre height (pillow block)	1.874 in
Housing overall width	1.181 in
Shaft diameter	1.25 in

Performance

Basic dynamic load rating	4 856 lbf
Basic static load rating	3 440 lbf
Limiting speed	3 200 r/min

Note Limiting speed with shaft tolerance h6

Properties

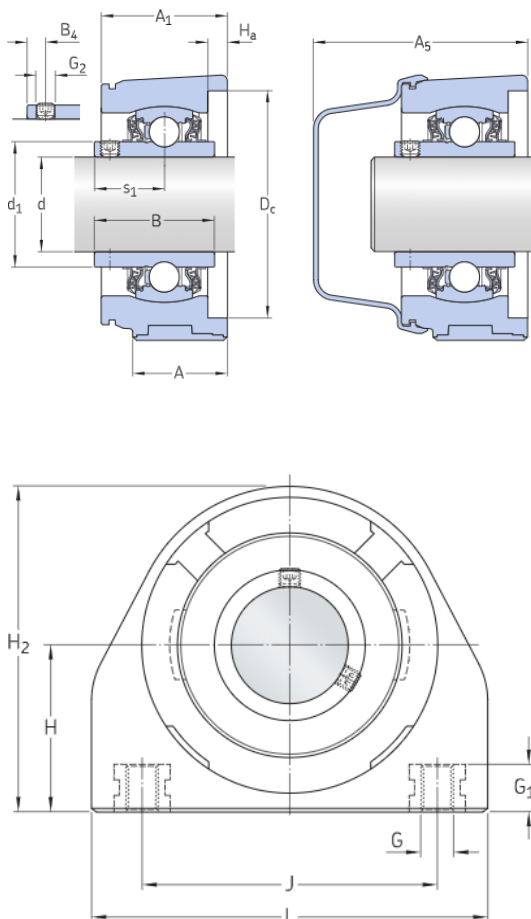
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Threaded
Grease fitting	Without
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Stainless steel
Material, housing	Composite for the SKF Food Line
Number of bolt holes for fasteners	2
Relubrication hole	Without
Retaining feature, inner ring	Set screws

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

Technical Specification

Compliance with standard	Not standardized
Purpose specific	For food and beverage applications
Material, housing	Composite for the SKF Food Line
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, gutter
Sealing, unit	Optional end cover
Coating	Without

Dimensions



d	1.25 in	Bore diameter
d_1	≈ 1.815 in	Shoulder diameter of inner ring
D_c	3.228 in	Centring diameter
H_a	0.236 in	Groove height for backseal
A	1.181 in	Base width
A_1	1.575 in	Top width
A_5	2.701 in	Width including end cover
B	1.689 in	Width of inner ring
B_4	0.236 in	Distance from locking device side face to thread centre
H	1.874 in	Height of spherical seat centre
H_2	3.693 in	Overall height
J	3.248 in	Distance between attachment bolts
L	4.331 in	Overall length

s_1 1 in

Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	4 856 lbf
Basic static load rating	C_0	3 440 lbf
Fatigue load limit	P_u	147 lbf
Limiting speed		3 200 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit		1.587 lb
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Mounting information

Thread for attachment bolts	G	1/2-13 UNC
Thread length	G_1	0.472 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		P2BTC 507
Bearing		YAR 207-104-2LPW/SS

Associated products

End cover		ECB 507
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