

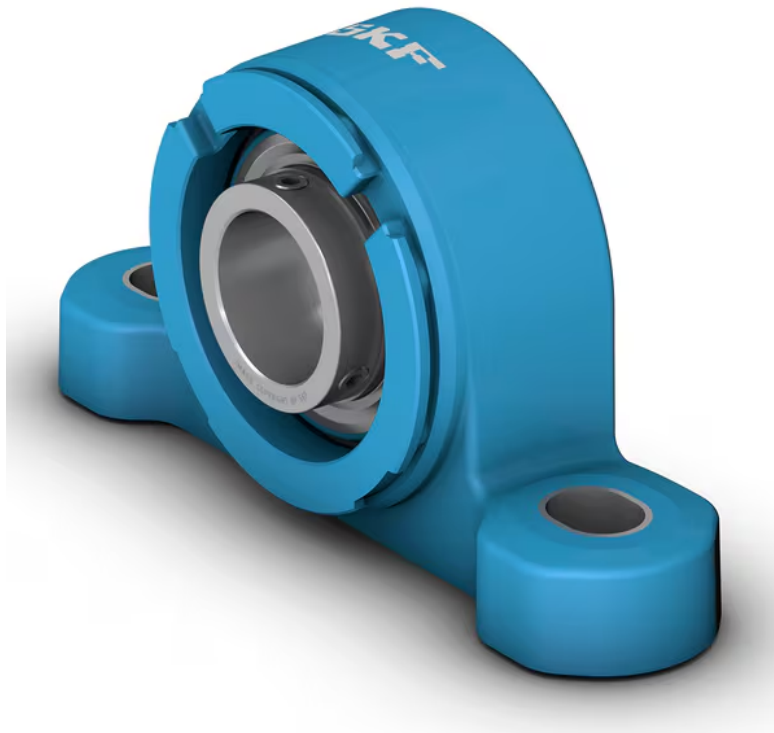


Image may differ from product. See technical specification for details.

P2BC 103-TPSS

Pillow block ball bearing unit with extended inner ring and set screw locking, composite

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a composite housing that is lightweight but robust and has excellent corrosion resistance. 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.

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

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Overview

Dimensions

Attachment bolt diameter	12.7 mm
Shaft diameter	30.163 mm
Centre height (pillow block)	42.9 mm
Housing overall width	40 mm
Centre distance between bolt holes	119 mm
Bearing width, total	38.1 mm

Performance

Basic dynamic load rating	16.3 kN
Basic static load rating	11.2 kN
Limiting speed	3 800 r/min
Note	Limiting speed with shaft tolerance h6

Properties

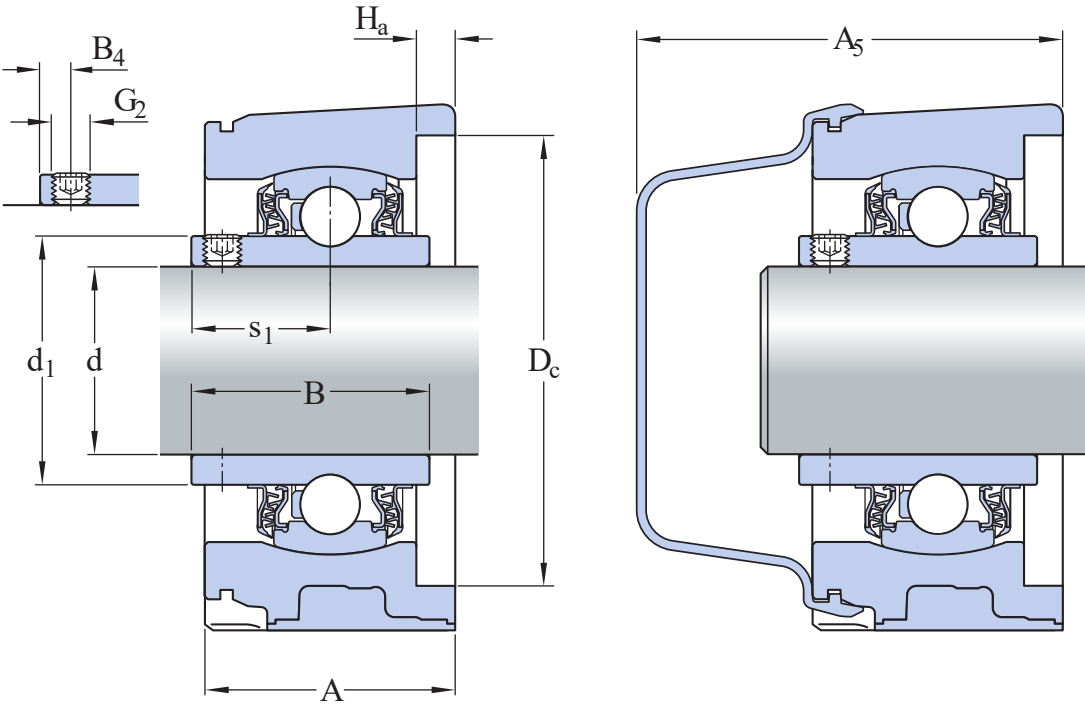
Housing type	Pillow block, normal base
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Composite for the SKF Food Line
Material, bearing	Stainless steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, gutter
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

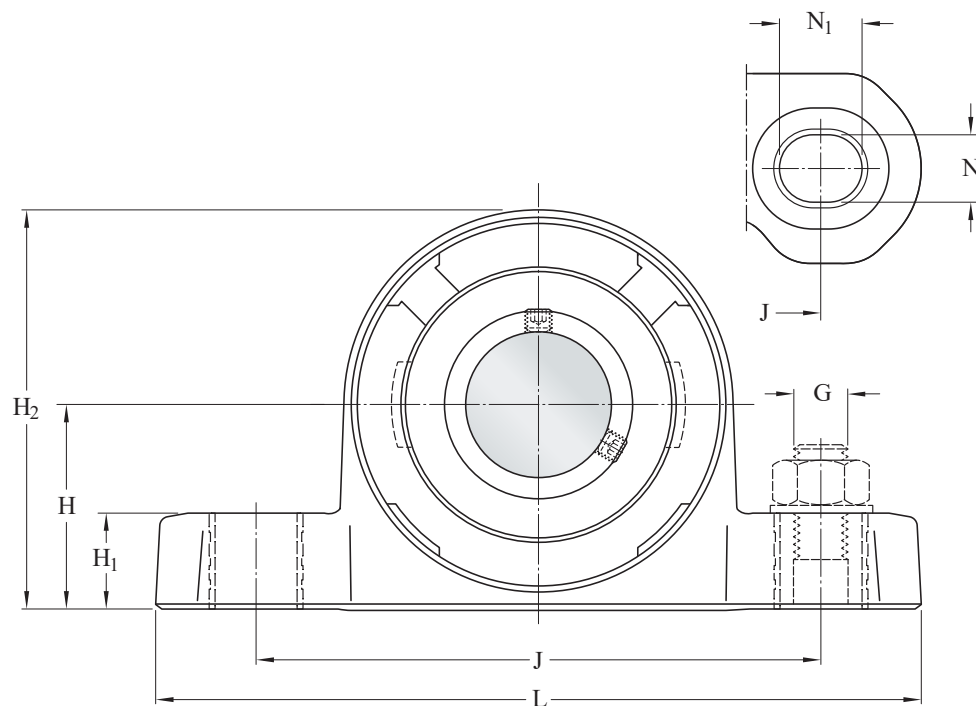
Logistics

Product net weight	0.498 kg
eClass code	23-05-08-02
UNSPSC code	31171536

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	30.163 mm	Bore diameter
d ₁	≈ 39.7 mm	Shoulder diameter of inner ring
D _c	72 mm	Centring diameter
H _a	6 mm	Groove height for backseal
A	40 mm	Base width
A ₁	40 mm	Top width
A ₅	68.1 mm	Width including end cover
B	38.1 mm	Width of inner ring
B ₄	5 mm	Distance from locking device side face to thread centre
H	42.9 mm	Height of spherical seat centre
H ₁	20 mm	Foot height
H ₂	84 mm	Overall height
J	119 mm	Distance between attachment bolts
J	max. 122 mm	Maximum distance between attachment bolts
J	min. 116 mm	Minimum distance between attachment bolts
L	161 mm	Overall length

N	14.2 mm	Diameter of attachment bolt hole
N ₁	17.4 mm	Length of attachment bolt hole
s ₁	22.2 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	16.3 kN
Basic static load rating	C ₀	11.2 kN
Fatigue load limit	P _u	0.475 kN
Limiting speed		3 800 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G ₂	1/4-28 UNF
Hexagonal key size for set screw		3.175 mm
Recommended tightening torque for set screw		4 N·m
Recommended diameter for attachment bolts, mm	G	12 mm
Recommended diameter for attachment bolts, inch	G	0.5 in

Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → [table 1](#)
- Radial internal clearance → [table 2](#)
- Recommended fit → [table 3](#)
- Shaft tolerance → [table 4](#)

Compatible products

Component

Insert bearing with set screw locking and extended inner ring

[YAR 206-103-2LPW/SS](#)

Recommended product

End cover for bearing units

[ECB 506](#)



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