

# SYWK 20 YTH



## 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

## Overview

### Dimensions

Shaft diameter	20 mm
Centre height (pillow block)	33.3 mm
Housing overall width	32 mm
Centre distance between bolt holes	96.5 mm
Bearing width, total	31 mm

### Performance

Basic dynamic load rating	10.8 kN
Basic static load rating	6.55 kN
Limiting speed	5 000 r/min
Note	Limiting speed with shaft tolerance h6

### Properties

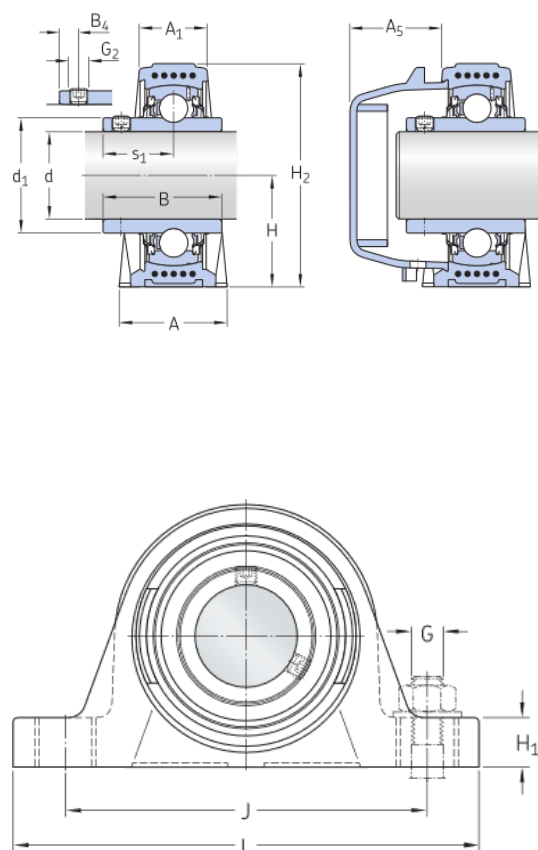
Housing type	Pillow block
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Composite for the SKF Food Line
Material, bearing	Stainless steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides

Sealing type	Contact, multiple
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

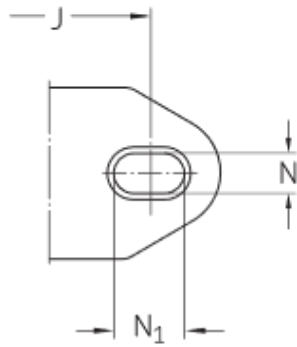
# Technical Specification

Compliance with standard	ISO with boundary dimension deviations
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, multiple
Sealing, unit	Optional end cover
Coating	Without

## Dimensions



d	20 mm	Bore diameter
d <sub>1</sub>	≈ 28.2 mm	Shoulder diameter of inner ring
A	32 mm	Base width
A <sub>1</sub>	21 mm	Top width
A <sub>5</sub>	26 mm	Width including end cover
B	31 mm	Width of inner ring
B <sub>1</sub>	31 mm	Overall bearing width
B <sub>4</sub>	4.5 mm	Distance from locking device side face to thread centre
H	33.3 mm	Height of spherical seat centre
H <sub>1</sub>	16 mm	Foot height
H <sub>2</sub>	64 mm	Overall height
J	96.5 mm	Distance between attachment bolts
J	max. 102 mm	Distance between attachment bolts
J	min. 91 mm	Distance between attachment bolts
L	126 mm	Overall length
N	12 mm	Diameter of attachment bolt hole
N <sub>1</sub>	17.5 mm	Length of attachment bolt hole



$s_1$  18.3 mm

Distance from locking device side face to raceway centre

## Calculation data

Basic dynamic load rating	C	10.8 kN
Basic static load rating	$C_0$	6.55 kN
Fatigue load limit	$P_u$	0.28 kN
Limiting speed		5 000 r/min
		Limiting speed with shaft tolerance h6

## Mass

Mass bearing unit	0.27 kg
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## Mounting information

Set screw	$G_2$	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 N·m
Recommended diameter for attachment bolts, mm	G	10 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

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