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

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

Performance

Basic dynamic load rating	10.8 kN
Basic static load rating	6.55 kN
Limiting speed	5 000 r/min

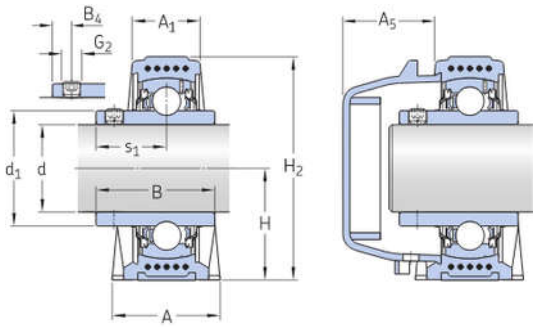
Properties

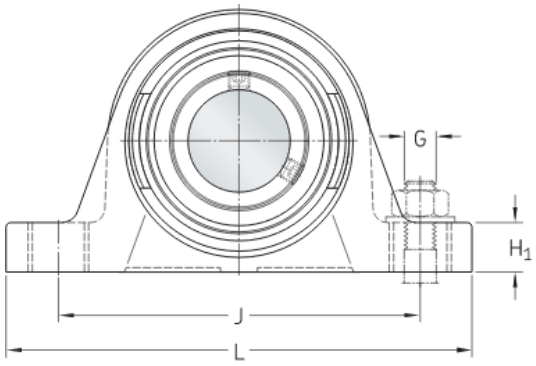
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Stainless steel
Material, housing	Composite for the SKF Food Line
Number of bolt holes for fasteners	2
Relubrication hole	Without
Relubrication nipple	Without
Retaining feature,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

Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Without

Technical Specification

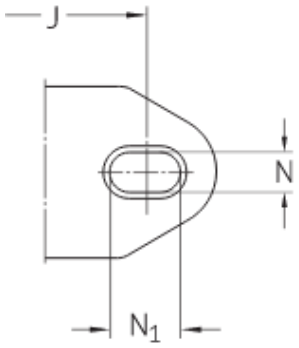
Compliance with standard	ISO
Purpose specific	For food and beverage applications
Housing material	Composite for the SKF Food Line
Sealing solution	Multiple seals





Dimensions

d	20 mm	Bore diameter
d_1	≈ 28.2 mm	Shoulder diameter inner ring
A	32 mm	Base width
A_1	21 mm	Top width
A_5	26 mm	Width including end cover
B	31 mm	Width of inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
H	33.3 mm	Height of spherical seat centre
H_1	16 mm	Foot height
H_2	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_1	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
with shaft tolerance h6		

Mass

Mass bearing unit	0.27 kg

Mounting information

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

Included products

Housing	SYWK 504 Y
Bearing	YAR 204-2RF/HV

Associated products

End cover	ECW 204

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