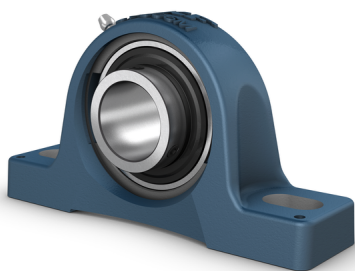


SY 20 TF

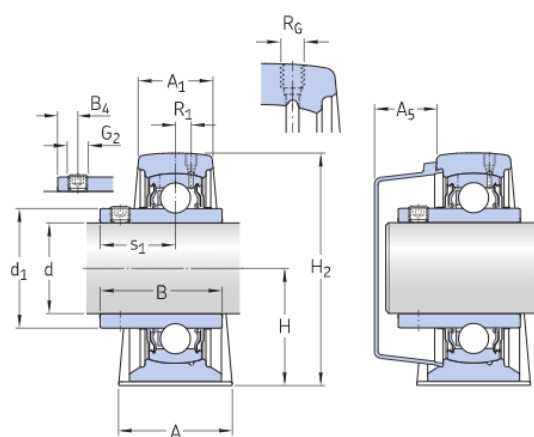
Pillow block ball bearing units



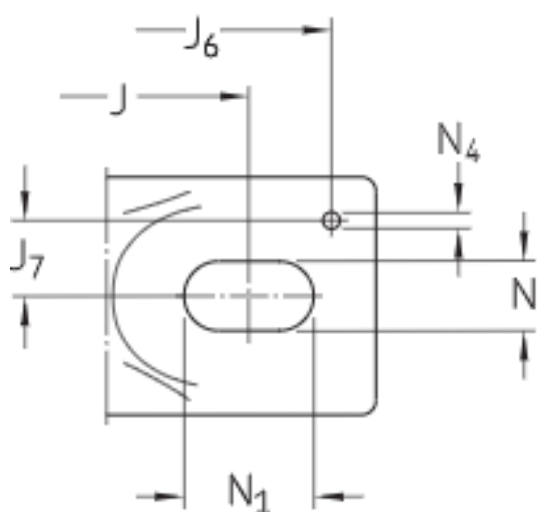
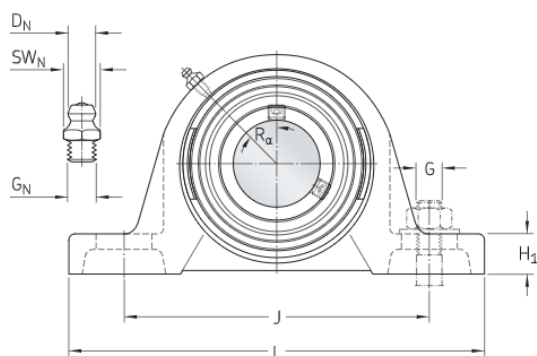
Technical specification

Compliance with standard	ISO
Purpose specific	For material handling applications
Housing material	Cast iron
Sealing solution	Standard seals with additional flingers

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	20.5 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	14 mm	Foot height
H ₂	64.5 mm	Overall height
J	97 mm	Distance between attachment bolts
J	max. 106	Distance between attachment bolts



mm

J	min. 88 mm	Distance between attachment bolts
L	127 mm	Overall length
N	11.5 mm	Diameter of attachment bolt hole
N ₁	20.5 mm	Length of attachment bolt hole
s ₁	18.3 mm	Distance from locking device side face to raceway centre

THREADED HOLE

R 1/4-28 UNF	Housing thread for the grease fitting
R 2 mm	Axial position of the housing thread
R 45 °	Angular position of the housing thread

GREASE FITTING

D 6.5 mm	Diameter of head sphere of grease fitting
S 7 mm	Hexagonal key size for the grease fitting
G 1/4-28 SAE-LT	Thread of the grease fitting

DOWEL PINS

J ₆	118 mm	Distance of dowel pins
J ₇	11.5 mm	Axial offset of dowel pins
N	2 mm	Recommended diameter for dowel pins

CALCULATION DATA

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C ₀	6.55 kN
Fatigue load limit	P _u	0.28 kN
Limiting speed		8 500 r/min
with shaft tolerance h6		

MASS

Mass bearing unit	0.56 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

INCLUDED PRODUCTS

Housing	SY 504 M
Bearing	YAR 204-2F

ASSOCIATED PRODUCTS

End cover	ECY 204
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More information

Product details

[Pillow block units to ISO standards](#)

[Pillow block units to North American standards](#)

[Pillow block units to Japanese Industrial Standards \(JIS\)](#)

[Pillow block units, not standardized \(incl. SKF Food Line\)](#)

[Permissible misalignment](#)

[Locating/non-locating support](#)

[Loads](#)

[Temperature limits](#)

[Permissible speed](#)

[Lubrication](#)

[Mounting and dismounting](#)

[Ordering information](#)

[Designation system](#)

Engineering information

[Principles of ball bearing units selection and application - Download catalogue \(4.9 MB\)](#)

[Principles of selecting mounted bearing solutions](#)

[Bearing failure and how to prevent it](#)

Tools

[Bearing Select](#)

[Engineering Calculator](#)

[Rolling bearings mounting and dismounting instructions](#)

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