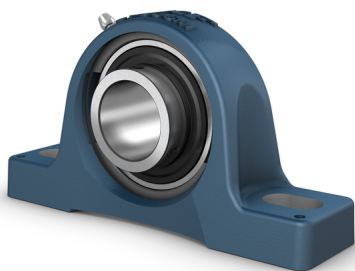


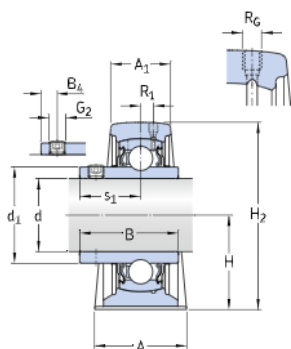
SY 1/2 TF

Pillow block ball bearing units



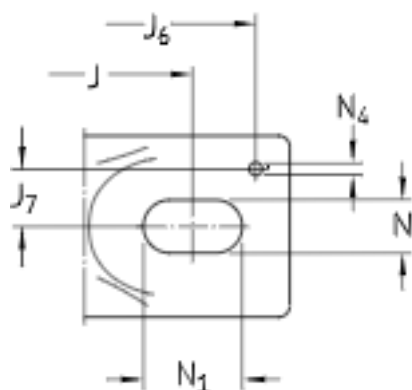
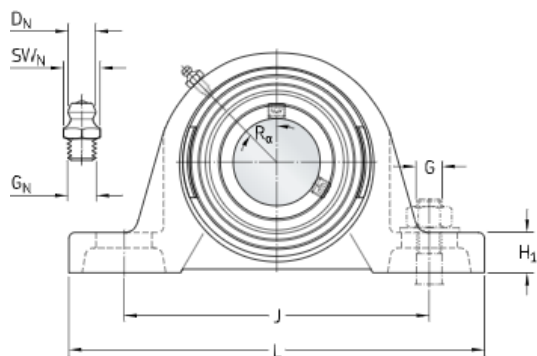
Technical specification

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



DIMENSIONS

d	12.7 mm
d ₁	≈ 24.2 mm
A	32 mm
A ₁	18 mm
B	27.4 mm
B ₄	4 mm
H	30.2 mm
H ₁	14 mm
H ₂	57 mm
J	97 mm
J	max. 106 mm
J	min. 88 mm
L	127 mm



N	11.5 mm
N_1	20.5 mm
s_1	15.9 mm

THREADED HOLE

R_G	1/4-28 UNF
R_1	1 mm
R_α	45 °

GREASE FITTING

D_N	6.5 mm
SW_N	7 mm
G_N	1/4-28 SAE-LT

DOWEL PINS

J_6	118 mm
J_7	11.5 mm
N_4	2 mm

CALCULATION DATA

Basic dynamic load rating	C	9.56 kN
Basic static load rating	C_0	4.75 kN
Fatigue load limit	P_u	0.2 kN
Limiting speed		9 500 r/min
with shaft tolerance h6		

MASS

Mass bearing unit	0.48 kg
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MOUNTING INFORMATION

Set screw	G ₂	#10-32 UNF
Hexagonal key size for set screw	N	2.381 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 503 M
Bearing	YAR 203-008-2F

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 \(incl. SKF Food Line\)](#)

[Ball bearing unit data](#)

[Loads](#)

[Temperature limits](#)

[Permissible speed](#)

[Lubrication](#)

[Mounting and dismounting](#)

[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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