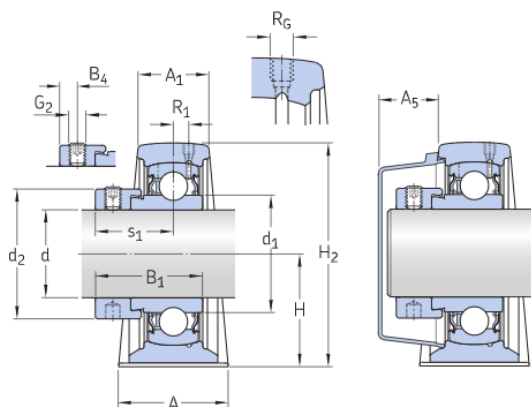


SY 25 FM

Pillow block ball bearing units

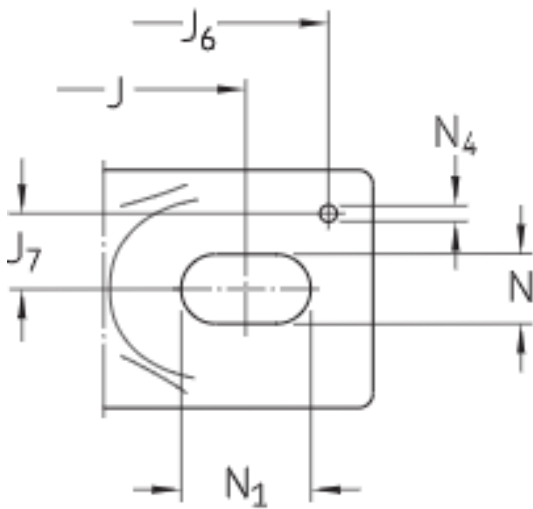
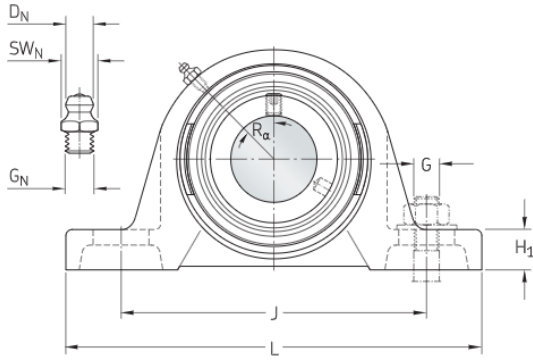
Technical specification

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



DIMENSIONS

d	25 mm	Bore diameter
d1	≈33.74 mm	Shoulder diameter inner ring
d2	37.4 mm	Outside diameter locking ring
A	36 mm	Base width
A1	22 mm	Top width
A5	20.5 mm	Width including end cover
B1	31 mm	Overall bearing width
B4	4.75 mm	Distance from locking device side face to thread centre
H	36.5 mm	Height of spherical seat centre
H1	16 mm	Foot height
H2	70 mm	Overall height
J	102 mm	Distance between attachment bolts



J	max.110 mm	Distance between attachment bolts
J	min.94 mm	Distance between attachment bolts
L	130 mm	Overall length
N	11.5 mm	Diameter of attachment bolt hole
N ₁	19.5 mm	Length of attachment bolt hole
s1	23.5 mm	Distance from locking device side face to raceway centre

THREADED HOLE

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

GREASE FITTING

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

DOWEL PINS

J ₆	120 mm	Distance of dowel pins
J ₇	13 mm	Axial offset of dowel pins
N ₄	4 mm	Recommended diameter for dowel pins

CALCULATION DATA

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN

Limiting speed	7 000 r/min
with shaft tolerance h6	

MASS

Mass bearing unit	0.73 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 505 M
Bearing	YET 205

ASSOCIATED PRODUCTS

End cover	ECY 205
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More information

Product details	Engineering information	Tools
Pillow block units to ISO standards	Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	Bearing Select
Pillow block units to North American standards	Principles of selecting mounted bearing solutions	Engineering Calculator
Pillow block units to Japanese Industrial Standards (JIS)	Bearing failure and how to prevent it	Rolling bearings mounting and dismounting instructions
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		

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