

# SY 1. TFPillow block ball bearing unit with extended inner ring and set screw locking, cast iron, ISO standards



## standards

Pillow block ball bearing unit with extended inner ring and set screw locking, cast iron, ISO standards

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing that can be bolted to a support surface. 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.

- Strong
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

## Overview

### Dimensions

Shaft diameter	25.4 mm
Centre height (pillow block)	36.5 mm
Housing overall width	36 mm
Centre distance between bolt holes	102 mm
Bearing width, total	34.1 mm

### Performance

Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	7 000 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	Cast iron

Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

# Technical Specification

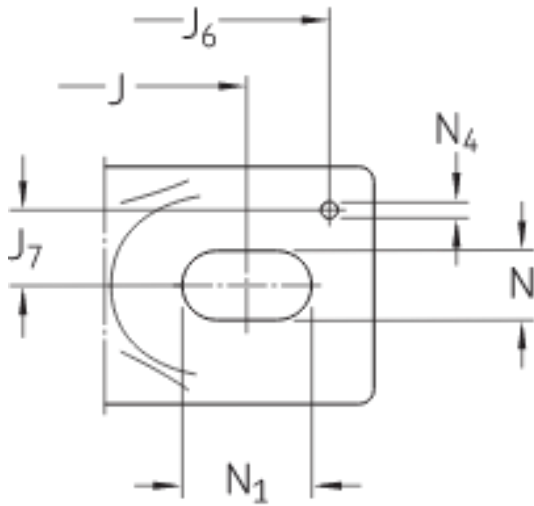
Compliance with standard	ISO
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Optional end cover
Coating	Without



## Dimensions

d	25.4 mm	Bore diameter
$d_1$	$\approx 33.74$ mm	Shoulder diameter of inner ring
A	36 mm	Base width
$A_1$	22 mm	Top width
$A_5$	20.5 mm	Standout of end cover
B	34.1 mm	Width of inner ring
$B_4$	5 mm	Distance from locking device side face to thread centre
H	36.5 mm	Height of spherical seat centre
$H_1$	16 mm	Foot height
$H_2$	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
$s_1$	19.8 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
$R_\alpha$	45 °	Angular position of the housing thread

#### Grease fitting

$D_N$	6.5 mm	Diameter of head sphere of grease fitting
SW	7 mm	Hexagonal key size for the grease fitting
$G_N$	1/4-28 SAE-LT	Thread of 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
		Limiting speed with shaft tolerance h6

## Mass

Mass bearing unit	0.72 kg
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## Mounting information

Set screw	G <sub>2</sub>	1/4-28 UNF
Hexagonal key size for set screw		3.175 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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