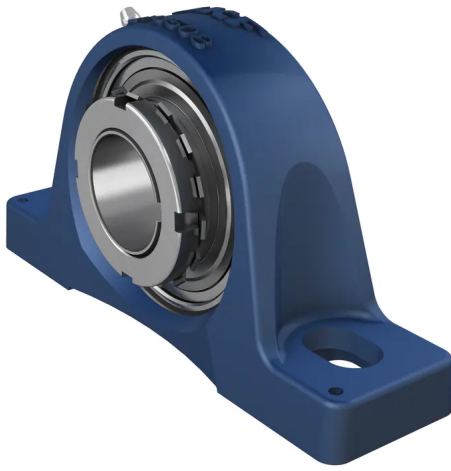


# SYJ 55 KF



Pillow block ball bearing unit with adapter sleeve locking, cast iron, Japanese 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 is locked with an adapter sleeve, enabling quick and easy mounting onto the shaft. Adapter sleeve needs to be ordered separately.

- Strong
- Ready to mount
- Designed for a constant and alternating rotation
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

## Overview

### Dimensions

Centre distance between bolt holes	6.752 in
Centre height (pillow block)	2.5 in
Housing overall width	2.362 in
Shaft diameter	1.969 in

### Performance

Basic dynamic load rating	9 802 lbf
Basic static load rating	6 519 lbf
Limiting speed	3 600 r/min

### Properties

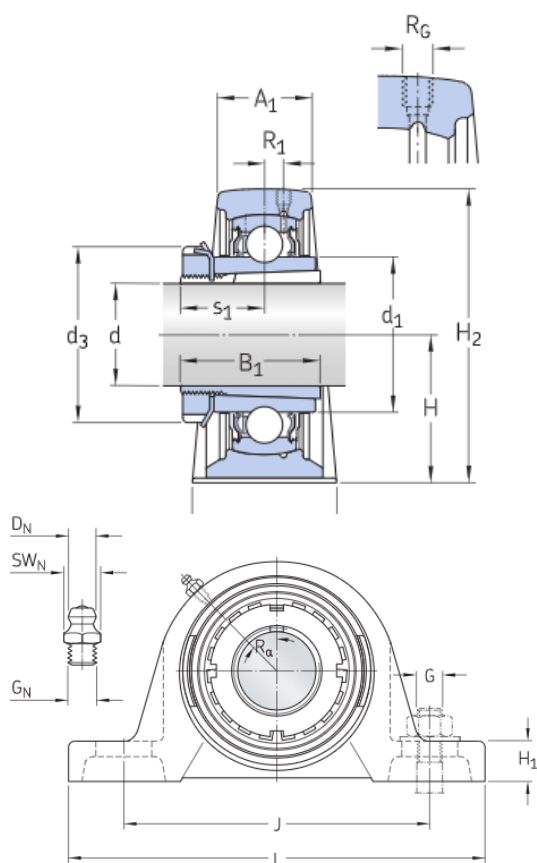
Bore type	Tapered
Coating	Without
Fastening bolt hole type	Plain
Grease fitting	With
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With
Retaining feature, inner ring	Adapter sleeve

Rubber seating ring	Without
Sealing type	Contact, standard
Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Without

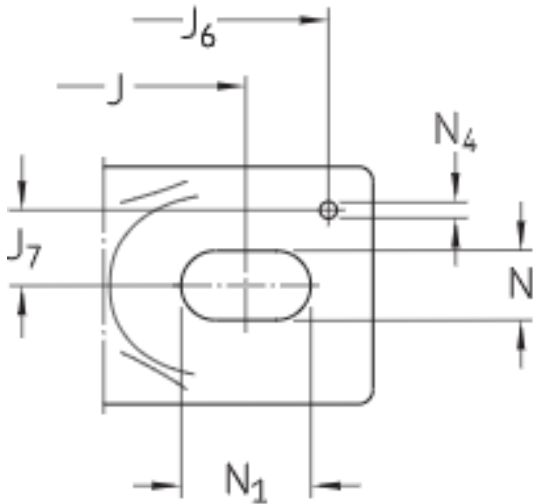
# Technical Specification

Order adapter sleeve separately	
Compliance with standard	JIS
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without

## Dimensions



d	1.969 in	Bore diameter
d <sub>1</sub>	≈ 2.719 in	Shoulder diameter of inner ring
d <sub>3</sub>	2.953 in	Outside diameter of lock nut
A	2.362 in	Base width
A <sub>1</sub>	1.575 in	Top width
B <sub>1</sub>	2.323 in	Width of sleeve
H	2.5 in	Height of spherical seat centre
H <sub>1</sub>	0.945 in	Foot height
H <sub>2</sub>	4.961 in	Overall height
J	6.752 in	Distance between attachment bolts
J	max. 7.087 in	Distance between attachment bolts
J	min. 6.417 in	Distance between attachment bolts
L	8.622 in	Overall length
N	0.787 in	Diameter of attachment bolt hole
N <sub>1</sub>	1.122 in	Length of attachment bolt hole
s <sub>1</sub>	1.2795 in	Distance from lock nut side face to raceway centre
Value specified for s <sub>1</sub>		



#### Threaded hole

$R_C$ 1/4-28 UNF	Housing thread for the grease fitting
$R_1$ 0.197 in	Axial position of the housing thread
$R_0$ 45 °	Angular position of the housing thread

#### Grease fitting

$D_1$ 0.256 in	Diameter of head sphere of grease fitting
$S_1$ 0.276 in	Hexagonal key size for the grease fitting
$G_1$ 1/4-28 SAE-LT	Thread of grease fitting

#### Dowel pins

$J_6$ 7.913 in	Distance of dowel pins
$J_7$ 0.827 in	Axial offset of dowel pins
$N_4$ 0.157 in	Recommended diameter for dowel pins

### Calculation data

Basic dynamic load rating	C	9 802 lbf
Basic static load rating	$C_0$	6 519 lbf
Fatigue load limit	$P_u$	281 lbf
Limiting speed		3 600 r/min

### Mass

Mass bearing unit	7.165 lb
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### Mounting information

Associated spanner		HN 11
Recommended lock nut tightening angle	$\alpha$	90 °
Recommended diameter for attachment bolts, mm	G	16.002 mm

Recommended diameter for attachment bolts, inch

G

0.625 in

### Included products

Housing

SYJ 511

Bearing

YSA 211-2FK

### Associated products

Adapter sleeve

H 2311

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