

SYJ 90 TF



NOT FOUND

Pillow block ball bearing unit with extended inner ring and set screw 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 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
- Designed for a constant and alternating rotation
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

Overview

Dimensions

Bearing width, total	3.504 in
Centre distance between bolt holes	10.315 in
Centre height (pillow block)	4 in
Housing overall width	3.465 in
Shaft diameter	3.543 in

Performance

Basic dynamic load rating	21 492 lbf
Basic static load rating	16 186 lbf
Limiting speed	2 000 r/min
Note	Limiting speed with shaft tolerance h6

Properties

Bore type	Cylindrical
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

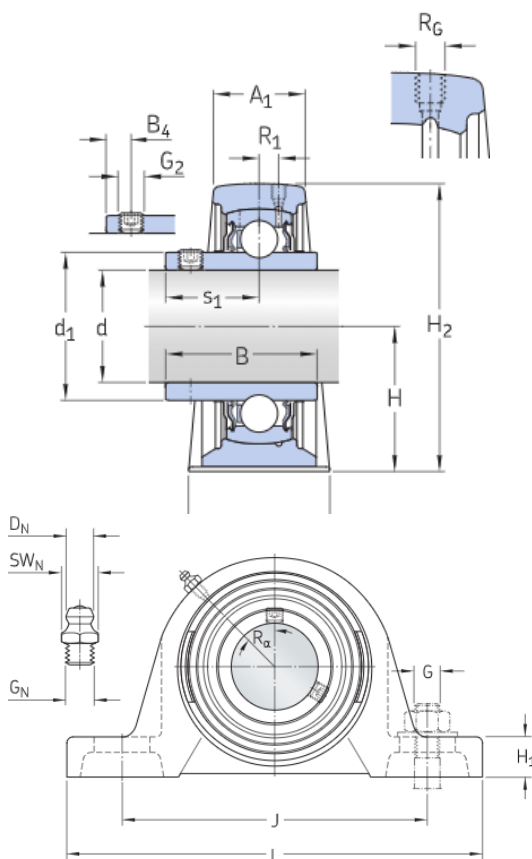
Retaining feature, inner ring	Set screws
Rubber seating ring	Without
Sealing type	Contact, standard
Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Without

Technical Specification

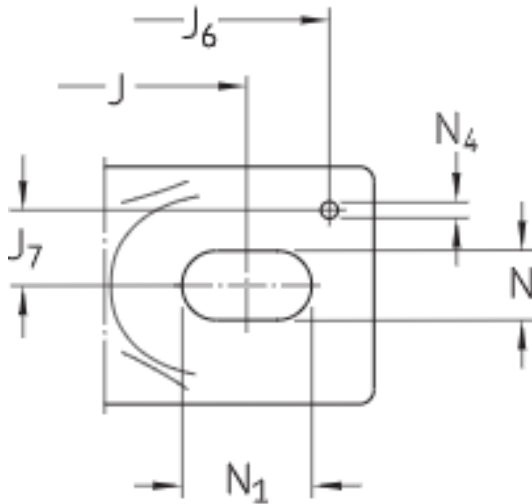
Compliance with standard	JIS
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without

Dimensions

d	3.543 in	Bore diameter
d ₁	≈ 4.429 in	Shoulder diameter of inner ring
A	3.465 in	Base width
A ₁	2.126 in	Top width
B	3.504 in	Width of inner ring
B ₄	0.472 in	Distance from locking device side face to thread centre
H	4 in	Height of spherical seat centre
H ₁	1.299 in	Foot height
H ₂	7.894 in	Overall height
J	10.315 in	Distance between attachment bolts
J	max. 10.63 in	Distance between attachment bolts
J	min. 10 in	Distance between attachment bolts
L	12.874 in	Overall length
N	1.063 in	Diameter of attachment bolt hole
N ₁	1.378 in	Length of attachment bolt hole
s ₁	2.126 in	Distance from locking device side face to raceway centre



Threaded hole



R_C 1/4-28 UNF	Housing thread for the grease fitting
R_1 0.335 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 11.929 in	Distance of dowel pins
J_7 1.26 in	Axial offset of dowel pins
N_2 0.157 in	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	21 492 lbf
Basic static load rating	C_0	16 186 lbf
Fatigue load limit	P_u	607 lbf
Limiting speed		2 000 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	27.778 lb
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Mounting information

Set screw	G_2	M12x1.5
Hexagonal key size for set screw		0.236 in
Recommended tightening torque for set screw		252.246 lbf-in

Recommended diameter for attachment bolts, mm	G	21.996 mm
Recommended diameter for attachment bolts, inch	G	0.875 in

Included products

Housing		SYJ 518
Bearing		YAR 218-2F

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