

SY 15 TF



NOT FOUND

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

Bearing width, total	1.079 in
Centre distance between bolt holes	3.819 in
Centre height (pillow block)	1.189 in
Housing overall width	1.26 in
Shaft diameter	0.591 in

Performance

Basic dynamic load rating	2 149 lbf
Basic static load rating	1 068 lbf
Limiting speed	9 500 r/min
Note	Limiting speed with shaft tolerance h6

Properties

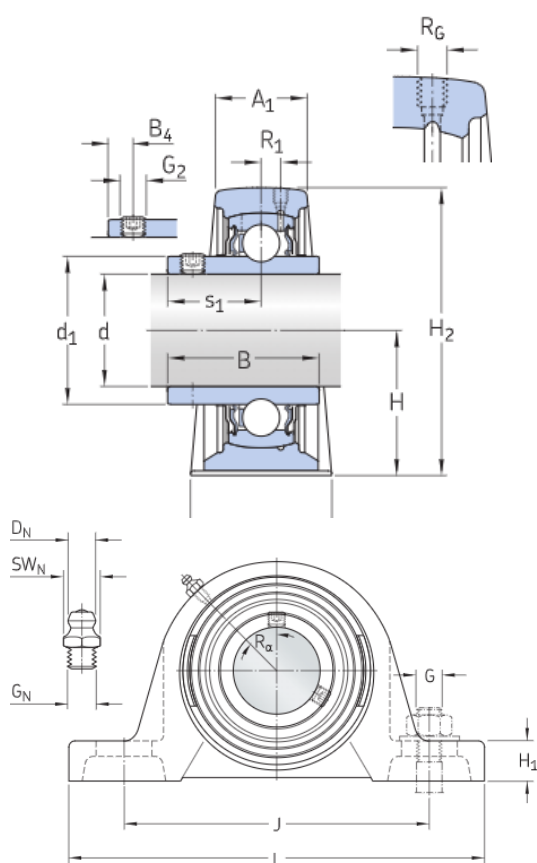
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Grease fitting	With
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With
Retaining feature, inner ring	Set screws

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

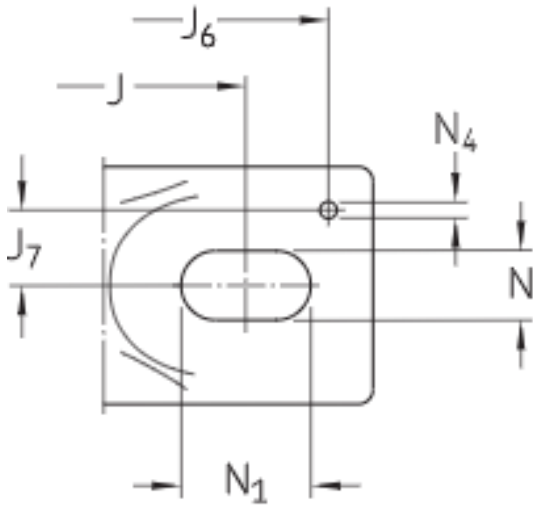
Technical Specification

Compliance with standard	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	Without
Coating	Without

Dimensions



d	0.591 in	Bore diameter
d_1	≈ 0.953 in	Shoulder diameter of inner ring
A	1.26 in	Base width
A_1	0.709 in	Top width
B	1.079 in	Width of inner ring
B_4	0.157 in	Distance from locking device side face to thread centre
H	1.189 in	Height of spherical seat centre
H_1	0.551 in	Foot height
H_2	2.244 in	Overall height
J	3.819 in	Distance between attachment bolts
J	max. 4.173 in	Distance between attachment bolts
J	min. 3.465 in	Distance between attachment bolts
L	5 in	Overall length
N	0.453 in	Diameter of attachment bolt hole
N_1	0.807 in	Length of attachment bolt hole
s_1	0.626 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 0.039 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 4.646 in	Distance of dowel pins
J_7 0.453 in	Axial offset of dowel pins
N_4 0.079 in	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	2 149 lbf
Basic static load rating	C_0	1 068 lbf
Fatigue load limit	P_u	45 lbf
Limiting speed		9 500 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	1.036 lb
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Mounting information

Set screw	G_2	M6x0.75
Hexagonal key size for set screw		0.118 in

Recommended tightening torque for set screw		35.403 lbf-in
Recommended diameter for attachment bolts, mm	G	10.008 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

Included products

Housing		SY 503 M
Bearing		YAR 203/15-2F

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