

SY 20 TF



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

Dimensions

Bearing width, total	1.22 in
Centre distance between bolt holes	3.819 in
Centre height (pillow block)	1.311 in
Housing overall width	1.26 in
Shaft diameter	0.787 in

Performance

Overview

Basic dynamic load rating	2 855 lbf
Basic static load rating	1 472 lbf
Limiting speed	8 500 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

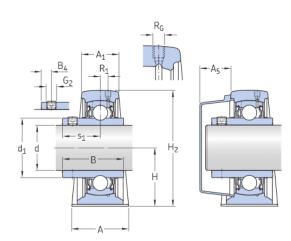


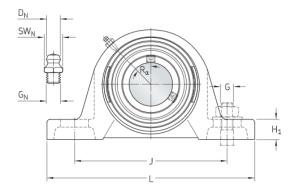
Rubber seating ring	Without
Sealing type	Contact, standard
Sealing, bearing	Seal and flinger on both sides
Sealing, unit	Optional end cover



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

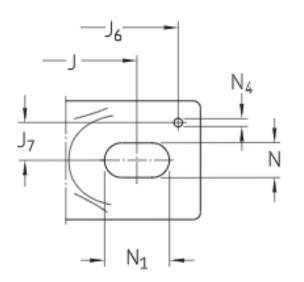




Dimensions

Bore diameter	0.787 in	d
Shoulder diameter of inner ring	≈ 1.11 in	d_1
Base width	1.26 in	А
Top width	0.827 in	A_1
Standout of end cover	0.807 in	A_5
Width of inner ring	1.22 in	В
Distance from locking device side face to thread centre	0.177 in	B ₄
Height of spherical seat centre	1.311 in	Н
Foot height	0.551 in	H ₁
Overall height	2.539 in	H_2
Distance between attachment bolts	3.819 in	J
Distance between attachment bolts	max. 4.173 in	J
Distance between attachment bolts	min. 3.465 in	J
Overall length	5 in	L
Diameter of attachment bolt hole	0.453 in	Ν
Length of attachment bolt hole	0.807 in	N_1
Distance from locking device side face to raceway centre	0.72 in	s ₁





Threaded hole

R _C 1/4-28 UNF	Housing thread for the grease fitting
R ₁ 0.079 in	Axial position of the housing thread
R _a 45 °	Angular position of the housing thread

Grease fitting

D ₁ 0.256 in	Diameter of head sphere of grease fitting
S\ 0.276 in	Hexagonal key size for the grease fitting
G _↑ 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	С	2 855 lbf
Basic static load rating	C _O	1 472 lbf
Fatigue load limit	P _u	63 lbf
Limiting speed		8 500 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	1.235 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 504 M
Bearing	YAR 204-2F
Associated products	
Associated products	

End cover	ECY 204
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