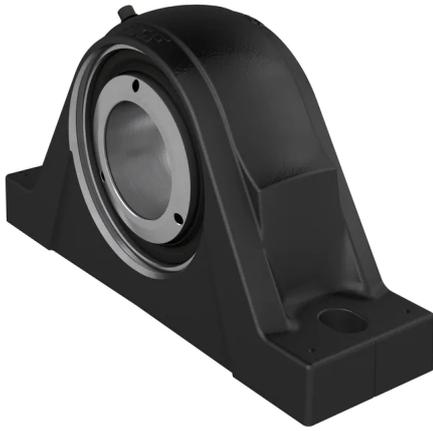


SYNT 40 LTS



Pillow block roller bearing unit, two-bolt, SKF ConCentra locking

Pillow (plummer) block roller bearing units and take-up roller bearing units consist of a spherical or tapered roller bearing mounted in a non-split housing that can be bolted to a support surface. This variant has a spherical roller bearing, a two-bolt base and SKF ConCentra locking, creating a true concentric tight fit, and setting the correct internal clearance within the bearing. The units are sealed and lubricated and ready to use. This bearing unit covers a wide range of requirements, in metric dimensions.

- Ready to mount
- Robust
- Factory lubricated and sealed
- Quick mounting
- Long service life

Overview

Dimensions

Attachment bolt diameter	0.472 in
Bearing width, total	2.559 in
Centre distance between bolt holes	6.693 in
Centre height (pillow block)	2.362 in
Housing overall width	2.362 in
Shaft diameter	1.575 in

Performance

Basic dynamic load rating	21 694 lbf
Basic static load rating	20 233 lbf
Limiting speed	5 900 r/min

Properties

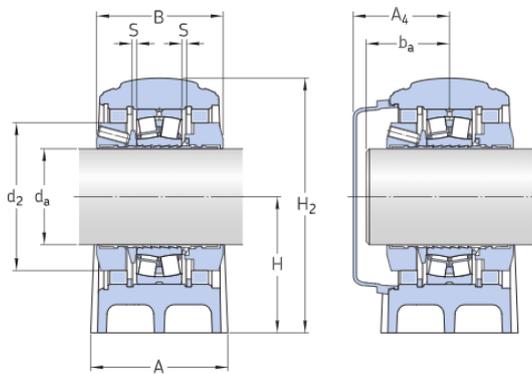
Bearing housing seal type	Labyrinth seal
Bearing insert	Spherical roller bearing
Bearing position	Non-locating
Bore type	Cylindrical
Coating	Without
Grease fitting	With
Housing type	Pillow block
Lubricant	Grease
Material, bearing	Bearing steel

Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With
Retaining feature, inner ring	SKF ConCentra
Sealing, unit	Optional end cover

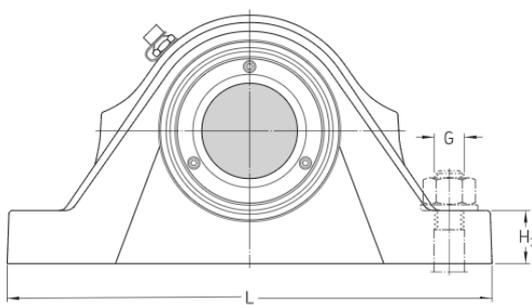
Technical Specification

Metric/inch series	Metric
Bearing insert	Spherical roller bearing
Bearing position	Non-locating
Locking method	SKF ConCentra
Bearing housing seal type	Labyrinth seal

Dimensions



d_a	1.575 in	Shaft diameter
d_2	2.598 in	Collar outer diameter
A	2.362 in	Housing foot width
B	2.559 in	Inner ring width
H	2.362 in	Height base to center
H_1	0.984 in	Housing foot height
H_2	4.488 in	Housing height
J	6.693 in	Distance of attachment bolts
L	8.071 in	Housing length
N	0.591 in	Width foot slot width
N_1	0.787 in	Length of attachment bolt hole
S	0.098 in	Axial displacement

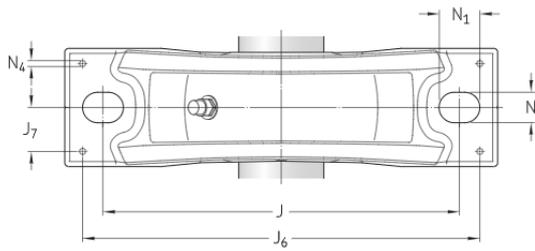


Shaft end

A_2	2.008 in	Distance bearing centre line to end cover
b_a max.	1.693 in	Distance bearing centre line to shaft end
b_a min.	1.339 in	Distance bearing centre line to shaft end

Dowel pins

J_6	7.283 in	Distance dowel pins
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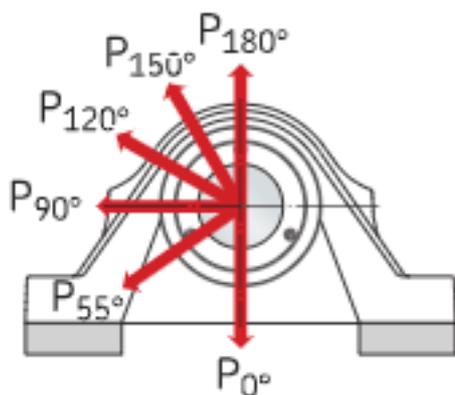


J_7	0.827 in	Distance dowel pins
N_4	0.236 in	Pin hole diameter

Calculation data

Basic dynamic load rating	C	21 694 lbf
Basic static load rating	C_0	20 233 lbf
Fatigue load limit	P_u	2 203 lbf
Limiting speed		5 900 r/min
Limiting value	e	0.28
Calculation factor	Y_1	2.4
Calculation factor	Y_2	3.6
Calculation factor	Y_0	2.5
Bearing mean diameter	d_m	2.362 in
Included bearing		22208 EKS
Axial holding force of the locking mechanism	P_a	3 372 lbf

Breaking loads



P_{0°	35 969 lbf	Breaking load
P_{55°	59 574 lbf	Breaking load
P_{90°	35 969 lbf	Breaking load
P_{120°	22 481 lbf	Breaking load
P_{150°	20 233 lbf	Breaking load
P_{180°	24 729 lbf	Breaking load

Mass

Mass bearing unit	8.378 lb
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Mounting information

Attachment bolt diameter	G	11.989 mm
Tightening torque for attachment bolts		708.06 lbf-in
Set screws	3 x M6	
Tightening torque for set screws		70.806 lbf-in
Grease quantity for relubrication		0.1411 oz

Associated products

End cover	ECY 208
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