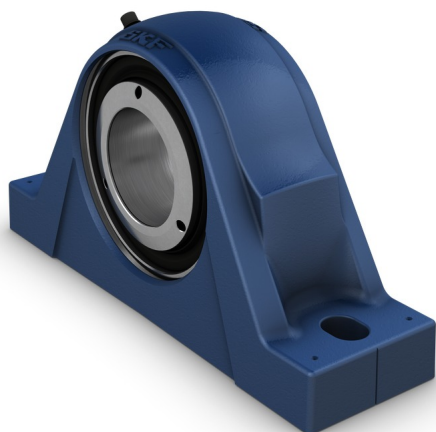


SYNT 70 L Pillow block roller bearing unit, two-bolt, SKF ConCentra locking



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

Shaft diameter	70 mm
Centre height (pillow block)	95 mm
Housing overall width	90 mm
Centre distance between bolt holes	260 mm
Attachment bolt diameter	20 mm
Bearing width, total	72 mm

Performance

Basic dynamic load rating	208 kN
Basic static load rating	228 kN
Limiting speed	2 600 r/min

Properties

Housing type	Pillow block
Number of bolt holes for fasteners	2
Bearing insert	Spherical roller bearing
Retaining feature, inner ring	SKF ConCentra
Bearing position	Non-locating

Bore type	Cylindrical
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Bearing housing seal type	Radial lip seal
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

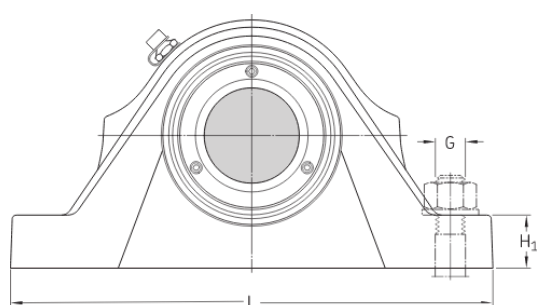
Technical Specification

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



Dimensions

d_a	70 mm	Shaft diameter
d_2	96 mm	Collar outer diameter
A	90 mm	Housing foot width
B	72 mm	Inner ring width
H	95 mm	Height base to center
H_1	32 mm	Housing foot height
H_2	176 mm	Housing height
J	260 mm	Distance of attachment bolts
L	315 mm	Housing length
N	22 mm	Width foot slot width
N_1	28 mm	Length of attachment bolt hole
S	2.5 mm	Axial displacement



Shaft end

A_4	80 mm	Distance bearing centre line to end cover
b_a	max. 70 mm	Distance bearing centre line to shaft end
b_a	min. 38 mm	Distance bearing centre line to shaft end

Dowel pins



J_6	290 mm	Distance dowel pins
J_7	32.5 mm	Distance dowel pins
N_4	8 mm	Pin hole diameter

Calculation data

Basic dynamic load rating	C	208 kN
Basic static load rating	C_0	228 kN
Fatigue load limit	P_u	25.5 kN
Limiting speed		2 600 r/min
Limiting value	e	0.22
Calculation factor	Y_1	3
Calculation factor	Y_2	4.6
Calculation factor	Y_0	2.8
Bearing mean diameter	d_m	97.5 mm
Axial holding force of the locking mechanism	P_a	20 kN

Breaking loads



P_0°	350 kN	Breaking load
P_{55}°	400 kN	Breaking load
P_{90}°	240 kN	Breaking load
P_{120}°	160 kN	Breaking load
P_{150}°	145 kN	Breaking load
P_{180}°	215 kN	Breaking load

Mass

Mass bearing unit	11 kg
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Mounting information

Attachment bolt diameter	G	20 mm
Tightening torque for attachment bolts		385 N·m
Set screws		M6
Number of set screws		4
Tightening torque for set screws		8 N·m
Grease quantity for relubrication		8 g

Associated products

End cover	ECY 214
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