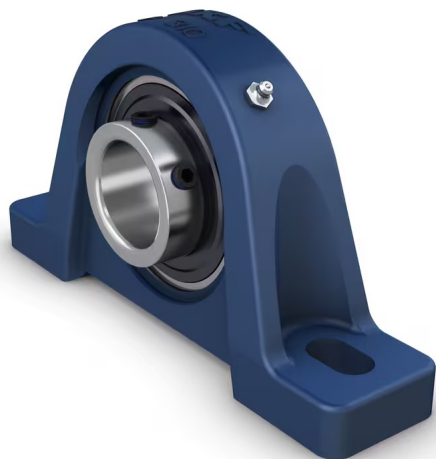


UCP 207



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 strong and stiff, and 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
- Designed for a constant and alternating rotation
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

Overview

Dimensions

Shaft diameter	35 mm
Centre height (pillow block)	47.6 mm
Housing overall width	46 mm
Centre distance between bolt holes	127 mm
Bearing width, total	42.9 mm

Performance

Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	4 300 r/min
Note	Limiting speed with shaft tolerance h6

Properties

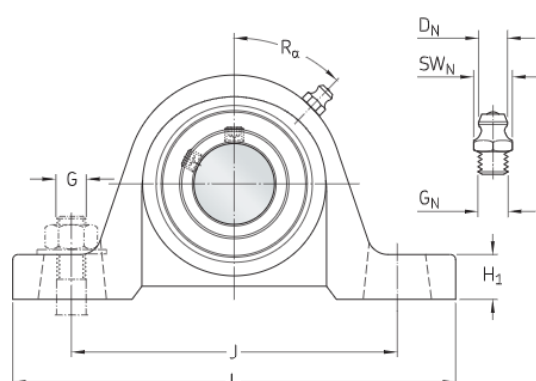
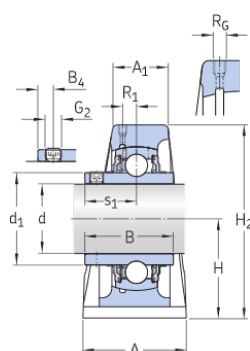
Housing type	Pillow block
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel

Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

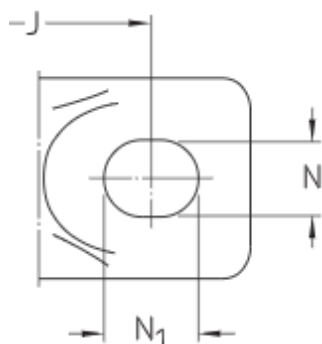
Technical Specification

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	35 mm	Bore diameter
d_1	≈ 46.8 mm	Shoulder diameter of inner ring
A	46 mm	Base width
A_1	28 mm	Top width
B	42.9 mm	Width of inner ring
B_4	6.5 mm	Distance from locking device side face to thread centre
H	47.6 mm	Height of spherical seat centre
H_1	18.5 mm	Foot height
H_2	93.5 mm	Overall height
J	127 mm	Distance between attachment bolts
J	max. 131 mm	Distance between attachment bolts
J	min. 123 mm	Distance between attachment bolts
L	166.5 mm	Overall length
N	17 mm	Diameter of attachment bolt hole



N_1	21 mm	Length of attachment bolt hole
s_1	25.4 mm	Distance from locking device side face to raceway centre

Threaded hole

R_G	1/4-28 UNF	Housing thread for the grease fitting
R_1	3.5 mm	Axial position of the housing thread
R_a	45 °	Angular position of the housing thread

Grease fitting

D_N	6.6 mm	Diameter of head sphere of grease fitting
SW	7.94 mm	Hexagonal key size for the grease fitting
G_N	1/4-28 UNF	Thread of grease fitting

Calculation data

Basic dynamic load rating	C	25.5 kN
Basic static load rating	C_0	15.3 kN
Fatigue load limit	P_u	0.655 kN
Limiting speed		4 300 r/min
Limiting speed with shaft tolerance h6		

Mass

Mass bearing unit	1.5 kg
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Mounting information

Set screw	G_2	M8x1
Hexagonal key size for set screw		4.06 mm

Recommended tightening torque for set screw		6.5 N·m
Recommended diameter for attachment bolts, mm	G	14 mm
Recommended diameter for attachment bolts, inch	G	0.5625 in

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