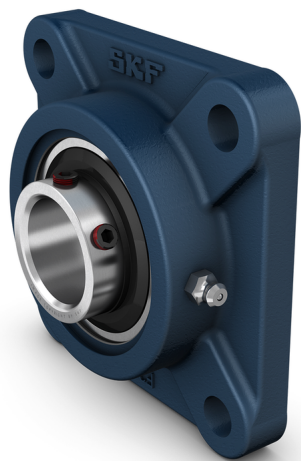


UCF 204

Square flanged ball bearing unit with set screw locking, cast iron, JIS standards



These square flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, with an extended inner ring and grub screw locking, suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

- Resist high levels of contamination
- Designed for hightemperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	64 mm
Housing overall width	25.5 mm
Shaft diameter	20 mm

Performance

Basic dynamic load rating	12.7 kN
Basic static load rating	6.7 kN
Limiting speed	6 500 r/min

Properties

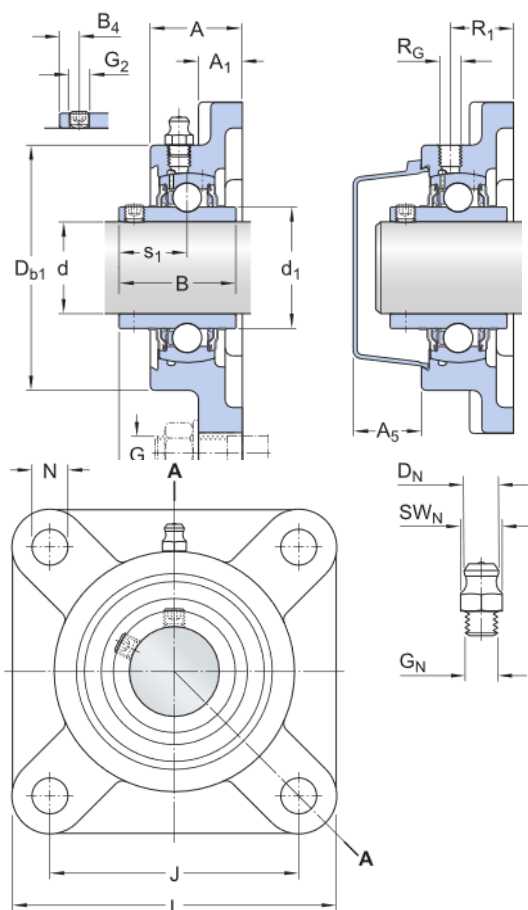
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Flanged housing type	Square
Housing type	Flanged
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	4
Relubrication hole	With
Relubrication nipple	With
Retaining feature, 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	JIS
Purpose specific	For material handling applications
Housing material	Cast iron
Sealing solution	Standard seals with additional flingers

Dimensions



d	20 mm	Bore diameter
d ₁	≈ 28.7 mm	Outer diameter inner ring
A	25.5 mm	Overall width
A ₁	11 mm	Flange width
A ₅	20.5 mm	Standout of end cover
B	31 mm	Width of inner ring
B ₄	5 mm	Distance from locking device side face to thread centre
D _{b1}	60 mm	Top external diameter
J	64 mm	Distance between attachment bolts
L	86 mm	Overall length
N	12 mm	Diameter of attachment bolt hole
s ₁	18.3 mm	Distance from locking device side face to raceway centre
T	33.2 mm	Overall unit width

Grease fitting

D _f	6.6 mm	Diameter of head sphere of grease fitting
S _N	7.94 mm	Hexagonal key size for the grease fitting
G _f	1/4-28 UNF	Thread of grease fitting

Threaded hole

R_G 1/4-28 UNF	Housing thread for grease fitting
R_1 17 mm	Axial position of the housing thread

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C_0	6.7 kN
Fatigue load limit	P_u	0.285 kN
Limiting speed		6 500 r/min
with shaft tolerance h6		

Mass

Mass bearing unit	0.53 kg
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Mounting information

Set screw	G_2	M6x1
Hexagonal key size for set screw		3.05 mm
Recommended tightening torque for set screw		4 Nm
Recommended diameter for attachment bolts, mm	G	10 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

Included products

Housing	F 204/Y
Bearing	UC 204

Associated products

End cover	ECY 204
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