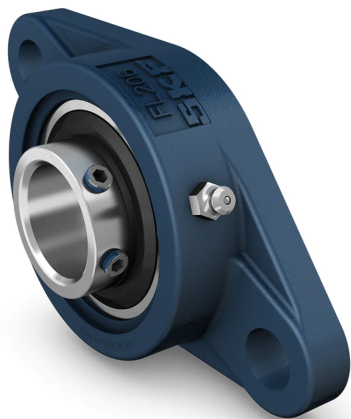


UCFL 204



Oval flange ball bearing unit with extended inner ring and set screw locking, cast iron housing, JIS

These oval flanged ball bearing units are compliant with JIS standards. They consist of an insert bearing, with an extended inner ring and set screw locking, and are suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a cast iron 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 high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	90 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
Note	Limiting speed with shaft tolerance h6

Properties

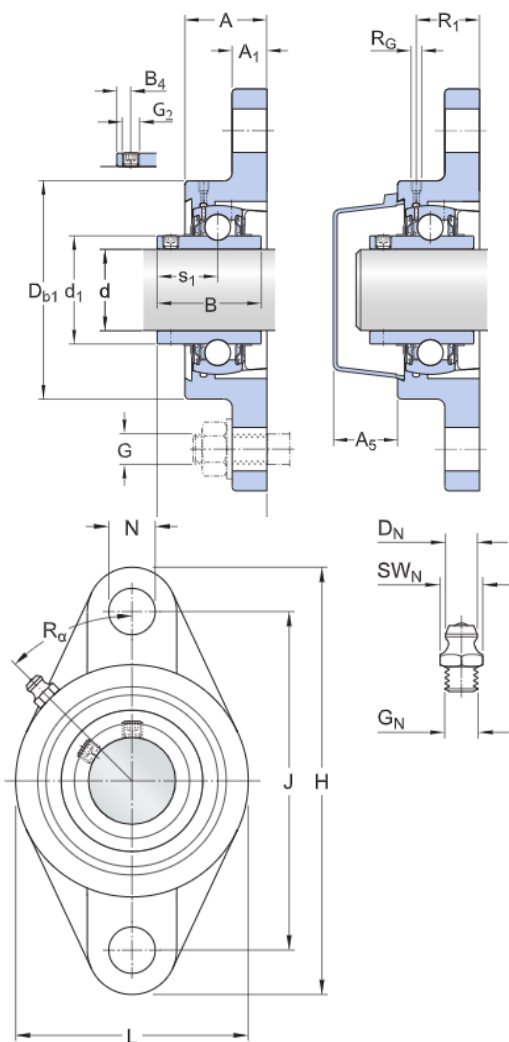
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Flanged housing type	Oval
Grease fitting	With
Housing type	Flanged
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With
Retaining feature, inner ring	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	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	Optional end cover
Coating	Without

Dimensions



d	20 mm	Bore diameter
d ₁	≈ 28.7 mm	Outer diameter of inner ring
A	25.5 mm	Overall width
A ₁	11 mm	Flange width
A ₅	20.5 mm	Width including 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
H	113 mm	Overall height
J	90 mm	Distance between attachment bolts
L	60 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	33.3 mm	Overall unit width
T	33.3 mm	Overall unit width

Threaded hole

R_G 1/4-28 UNF	Housing thread for grease fitting
R_1 17 mm	Axial position of the housing thread
R_0 45 °	Angular position of the housing thread

Grease fitting

D_f 6.6 mm	Diameter of head sphere of grease fitting
S_k 7.94 mm	Hexagonal key size for the grease fitting
G_f 1/4-28 UNF	Thread of grease fitting

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
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	0.44 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	FL 204/Y
Bearing	UC 204

Associated products

End cover	ECY 204
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