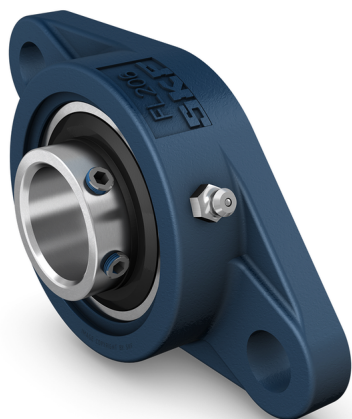


UCFL 204



Flanged ball bearing unit with composite or cast metal housing

Flanged ball bearing units consisting of an insert bearing mounted in a composite or cast metal housing that can be bolted to a machine wall or frame. In addition to being part of a unit, some flanged housings for insert bearings are available as separate components. The SKF assortment includes ball bearing units compliant with several industrial standards, meeting many requirements regarding bolt patterns and mechanisms for locking onto the shaft.

- Ready to mount
- Lubricated and sealed bearings
- Quick locking on the shaft
- Large variety of housing shapes, housing materials, and locking methods
- Concentric locking options for high speeds and low vibration

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

Properties

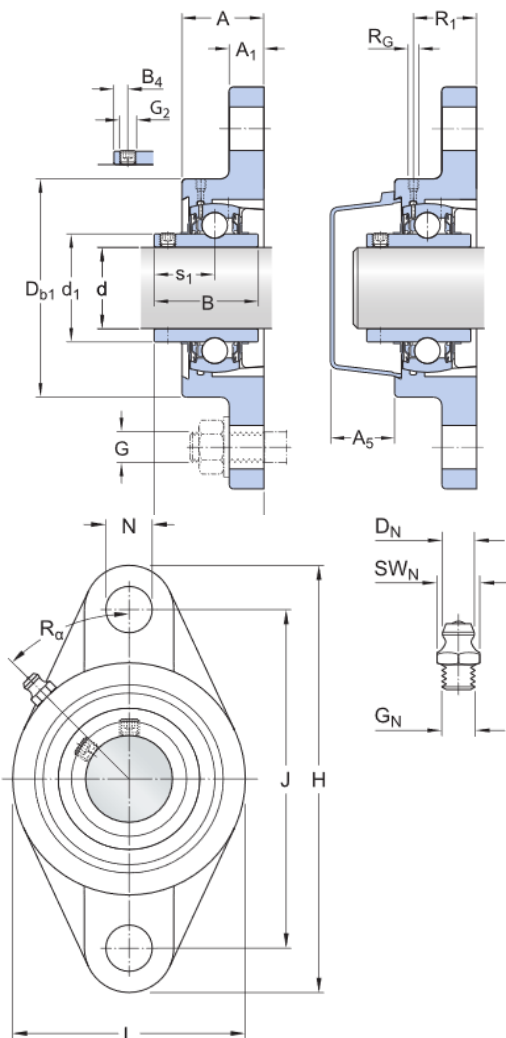
Bore type	Cylindrical
Coating	Without
Fastening bolt hole type	Plain
Flanged housing type	Oval
Housing type	Flanged
Lubricant	Grease
Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	2
Relubrication hole	With
Relubrication nipple	With
Retaining feature, inner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

Threaded hole

R _c	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
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Grease fitting

D_f 6.6 mm	Diameter of head sphere of grease fitting
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S_f 7.94 mm	Hexagonal key size for the grease fitting
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G_f 1/4-28 UNF	Thread of grease fitting
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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	0.44 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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