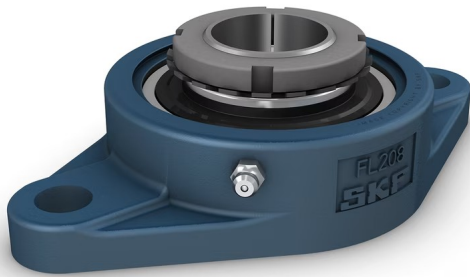


UKFL 210 K/H Flanged ball bearing unit with composite or cast metal housing



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

Shaft diameter	45 mm
Housing overall width	39 mm
Width, total	52.75 mm
Centre distance between bolt holes	157 mm
Bearing width, total	36.9 mm

Performance

Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	3 300 r/min

Properties

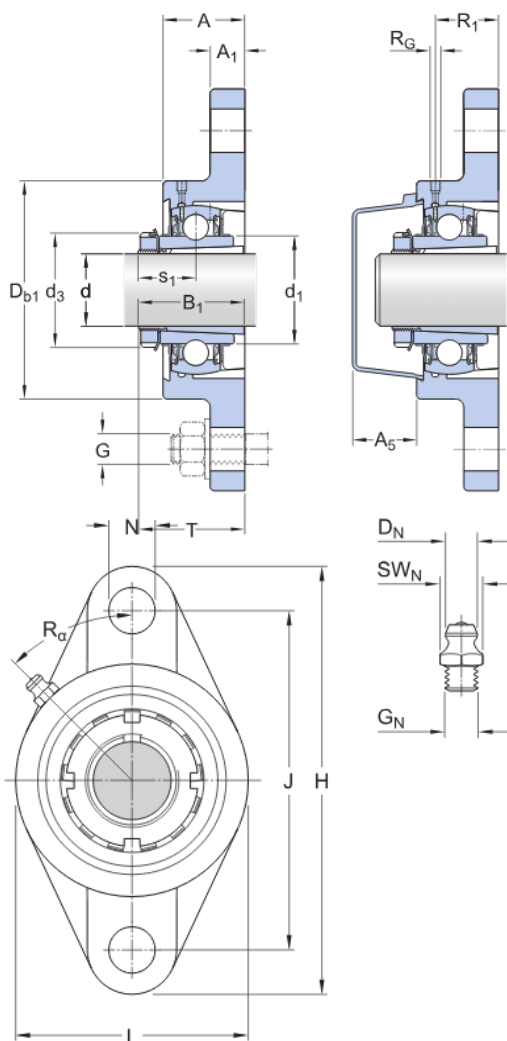
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Adapter sleeve ring
Bore type	Tapered

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	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Technical Specification

Order adapter sleeve separately	
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	45 mm	Bore diameter
d ₁	≈ 62.51 mm	Outer diameter of inner ring
d ₃	70 mm	Outside diameter of lock nut
A	39 mm	Overall width
A ₁	15 mm	Flange width
A ₅	33 mm	Width including end cover
B	37 mm	Width of inner ring
B ₁	36.9 mm	Overall bearing width
B ₁	55 mm	Width of sleeve
D _{b1}	115 mm	Top external diameter
H	197 mm	Overall height
J	157 mm	Distance between attachment bolts
L	115 mm	Overall length
N	19 mm	Diameter of attachment bolt hole
s ₁	30.75 mm	Distance from locking device side face to raceway centre

T 52.75 mm Overall unit width

Value specified for s_1

Threaded hole

R_c 1/8-27 NPT Housing thread for grease fitting

R_1 25 mm Axial position of the housing thread

R_c 45 ° Angular position of the housing thread

Grease fitting

D 6.589 mm Diameter of head sphere of grease fitting

S¹ 11.11 mm Hexagonal key size for the grease fitting

G 1/8-27 NPT Thread of grease fitting

Calculation data

Basic dynamic load rating	C	35.1 kN
Basic static load rating	C_0	23.2 kN
Fatigue load limit	P_u	0.98 kN
Limiting speed		3 300 r/min

Mass

Mass bearing unit	2 kg
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Mounting information

Associated spanner		HN 10
Recommended lock nut tightening angle	α	115 °
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

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