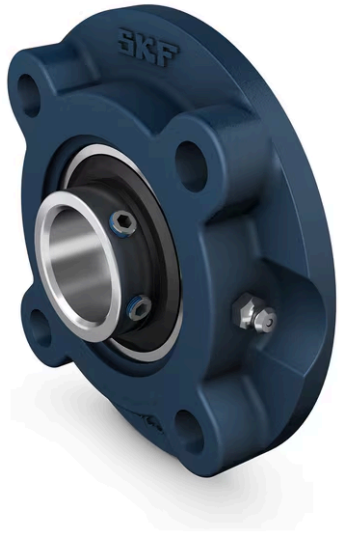


Image may differ from product. See technical specification for details.

UCFC 214

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

These round 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

Shaft diameter	70 mm
Housing overall width	54 mm
Width, total	61.4 mm
Pitch diameter of bolt holes of round and triangle flange type housing	177 mm
Bearing width, total	74.6 mm
Attachment bolt diameter	16 mm

Performance

Basic dynamic load rating	62.4 kN
Basic static load rating	44 kN
Limiting speed	2 250 r/min
Note	Limiting speed with shaft tolerance h6

Properties

Housing type	Flanged
Flanged housing type	Round
Number of bolt holes for fasteners	4
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	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With
Unit system	Metric

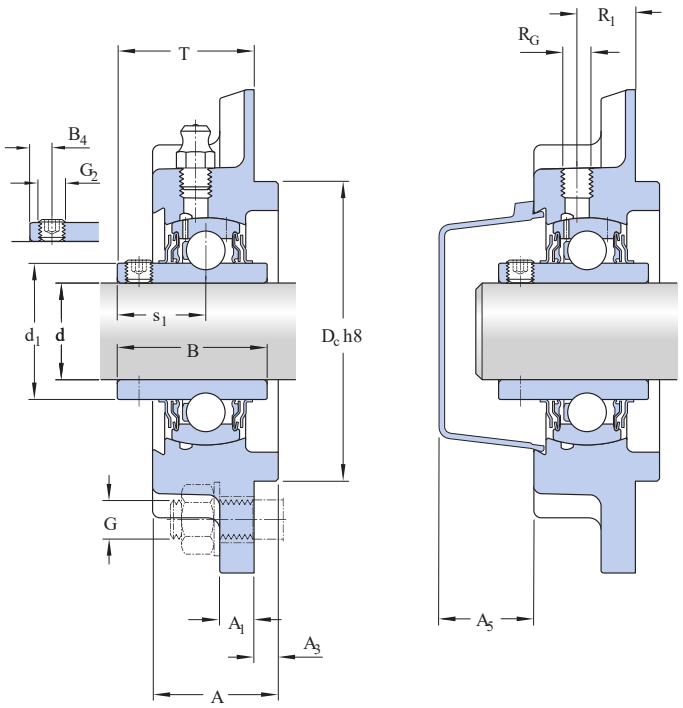
Logistics

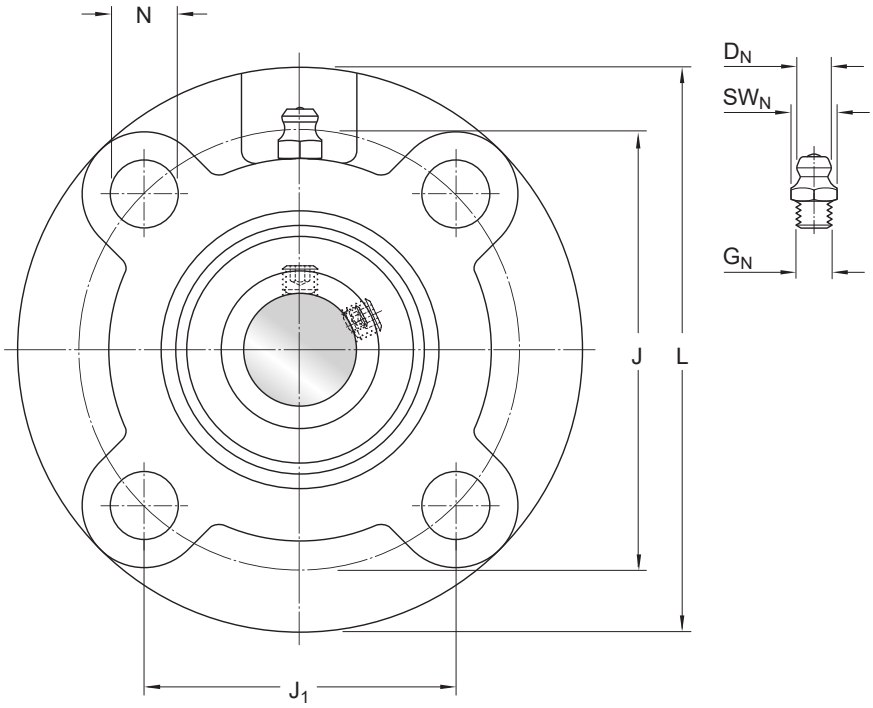
Product net weight	6.75 kg
eClass code	23-05-16-02

UNSPSC code	31171536

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	70 mm	Bore diameter
d_1	≈ 87 mm	Outer diameter of inner ring
A	54 mm	Width of housing
A_1	10 mm	Flange width
A_3	14 mm	Height of spherical seat centre
A_5	41.5 mm	Standout of end cover
B	74.6 mm	Width of inner ring
B_4	12 mm	Distance from locking device side face to thread centre
D_b	157.6 mm	External diameter
D_c	150 mm	Centering diameter
J	177	Pitch diameter of bolt holes
J_1	125.2 mm	Distance between attachment bolts
L	215 mm	Outside diameter
N	19 mm	Length of attachment bolt hole
s_1	44.4 mm	Distance from locking device side face to raceway centre
T	61.4 mm	Overall width

THREADED HOLE

R_G	1/8-27 NPT	Housing thread for grease fitting
R_1	21.5 mm	Axial position of the housing thread

GREASE FITTING

D_N	6.589 mm	Diameter of head sphere of grease fitting
SW_N	11.11 mm	Hexagonal key size for the grease fitting
G_N	1/8-27 NPT	Thread of grease fitting

Calculation data

Basic dynamic load rating	C	62.4 kN
Basic static load rating	C_0	44 kN
Fatigue load limit	P_u	1.86 kN
Limiting speed		2 250 r/min
		Limiting speed with shaft tolerance h6

Mounting information

Set screw	G_2	M12x1.5
Hexagonal key size for set screw		6.08 mm
Recommended tightening torque for set screw		28.5 N·m
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → table 1
- Radial internal clearance → table 2
- Recommended fit → table 3
- Shaft tolerance → table 4

Compatible products

Recommended product

End cover for bearing units	ECY 214

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