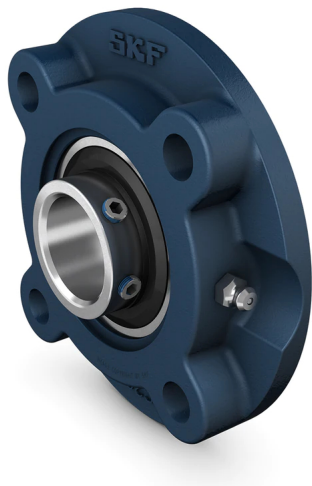


# UCFC 207



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	35 mm
Housing overall width	32 mm
Width, total	36.4 mm
Pitch diameter of bolt holes of round and triangle flange type housing	110 mm
Bearing width, total	42.9 mm

## Performance

Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	4 300 r/min
Note	Limiting speed with shaft tolerance h6

## Properties

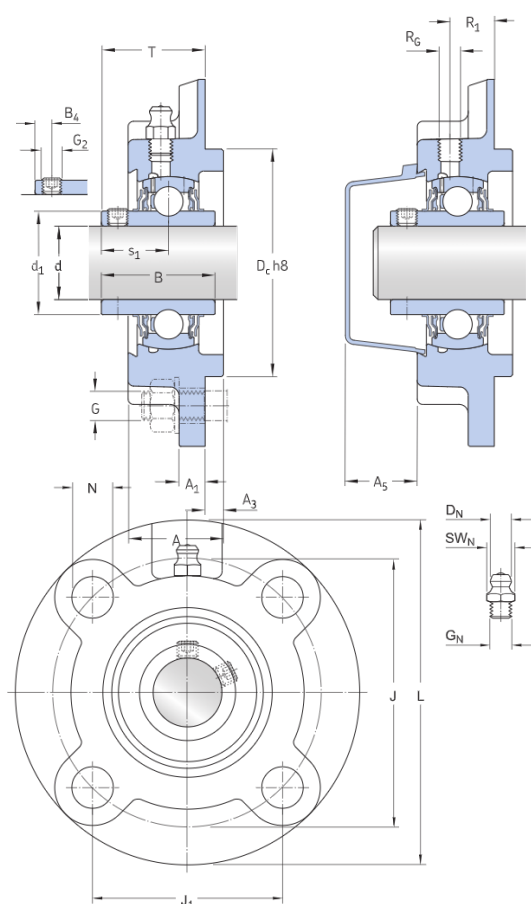
Housing type	Flanged
Flanged housing type	Round
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both

	sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

# 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	35 mm	Bore diameter
d <sub>1</sub>	≈ 46.8 mm	Outer diameter of inner ring
A	32 mm	Housing width
A <sub>1</sub>	9 mm	Flange width
A <sub>3</sub>	8 mm	Height of spherical seat centre
A <sub>5</sub>	24.5 mm	Standout of end cover
B	42.9 mm	Width of inner ring
B <sub>4</sub>	6.5 mm	Distance from locking device side face to thread centre
D <sub>c</sub>	90 mm	Centering diameter
J	110 mm	Pitch diameter of attachment bolts
J <sub>1</sub>	77.8 mm	Distance between attachment bolts
L	135 mm	Overall width
N	14 mm	Length of attachment bolt hole
s <sub>1</sub>	25.4 mm	Distance from locking device side face to raceway centre
T	36.4	Overall unit width

mm

#### Threaded hole

$R_G$  1/4-28 UNF Housing thread for grease fitting

$R_1$  14.5 mm Axial position of the housing thread

#### Grease fitting

$D_f$  6.6 mm Diameter of head sphere of grease fitting

$S_f$  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	25.5 kN
Basic static load rating	$C_0$	15.3 kN
Fatigue load limit	$P_u$	0.655 kN
Limiting speed		4 300 r/min
		Limiting speed with shaft tolerance h6

## Mass

Mass bearing unit	1.6 kg
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## Mounting information

Set screw	$G_2$	M8x1
Hexagonal key size for set screw		4.06 mm
Recommended tightening torque for set screw		6.5 N·m
Recommended diameter for attachment bolts, mm	G	12 mm
Recommended diameter for attachment bolts, inch	G	0.5 in

## Included products

Housing	FC 207/Y
Bearing	UC 207

## Associated products

End cover	ECY 207
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