

UCFC 205/H



NOT FOUND

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	25 mm
Housing overall width	27.5 mm
Width, total	29.8 mm
Pitch diameter of bolt holes of round and triangle flange type housing	90 mm
Bearing width, total	34.1 mm

Performance

Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	5 850 r/min

Note Limiting speed with shaft tolerance h6

Properties

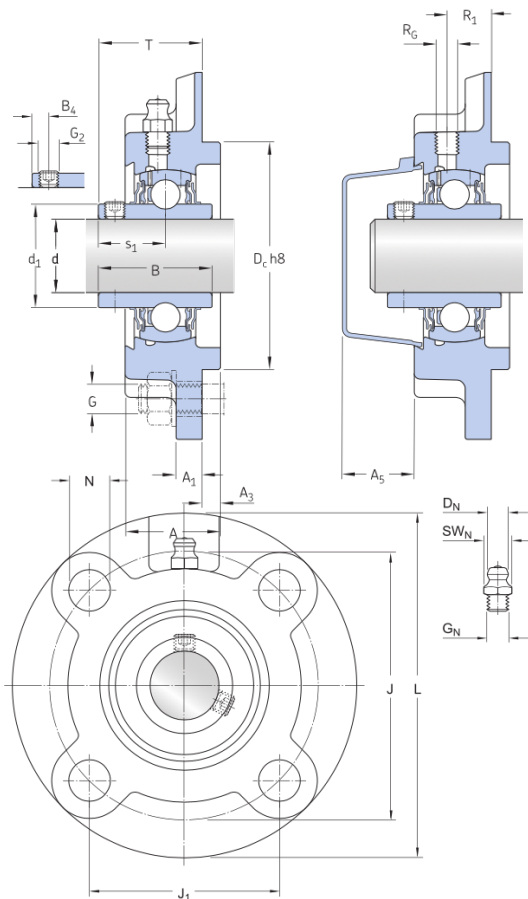
Housing type	Flanged
Flanged housing type	Round
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron

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 mm

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	25 mm	Bore diameter
d ₁	≈ 33.74 mm	Outer diameter of inner ring
A	27.5 mm	Housing width
A ₁	7 mm	Flange width
A ₃	6 mm	Height of spherical seat centre
A ₅	20.5 mm	Standout of end cover
B	34.1 mm	Width of inner ring
B ₄	5 mm	Distance from locking device side face to thread centre
D _b	77.2 mm	External diameter
D _c	70 mm	Centering diameter
J	90 mm	Pitch diameter of attachment bolts
J ₁	63.6 mm	Distance between attachment bolts
L	115 mm	Overall width
N	12 mm	Length of attachment bolt hole
s ₁	19.8 mm	Distance from locking device side face to raceway centre
T	29.8 mm	Overall unit width

Threaded hole

R_G 1/4-28 UNF	Housing thread for grease fitting
R_1 11.5 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	14 kN
Basic static load rating	C_0	7.8 kN
Fatigue load limit	P_u	0.335 kN
Limiting speed		5 850 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	1 kg
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Mounting information

Set screw	G_2	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 N·m
Recommended diameter for attachment bolts, mm	G	10 mm
Recommended diameter for attachment bolts, inch	G	0.375 in

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