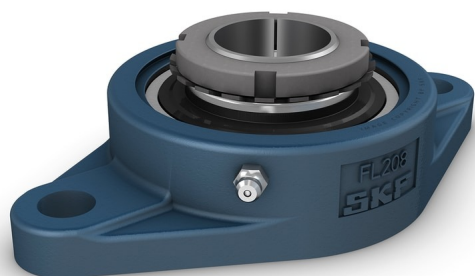


FYTJ 50 KFOval flanged ball bearing unit with adapter sleeve locking, cast iron housing, JIS



Oval flanged ball bearing unit with adapter sleeve locking, cast iron housing, JIS

These oval flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, are locked to the shaft with an adapter sleeve, which enables the bearings to operate at higher speeds and run more smoothly in 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. The adapter sleeve is not included in the unit and should be ordered separately.

- Resist high levels of contamination
- Designed for high temperatures and speeds
- Accommodate relatively heavy loads
- Cost-effective

Overview

Dimensions

Shaft diameter	45 mm
Housing overall width	40 mm
Width, total	52.25 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	4 000 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

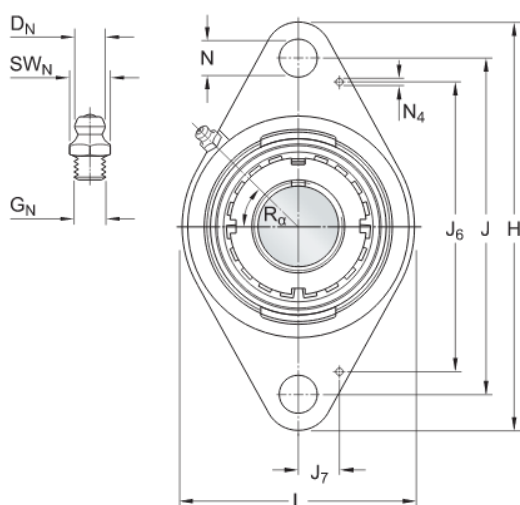
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

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	Without
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	40 mm	Overall width
A_1	18 mm	Flange width
A_3	3.2 mm	Depth of centring recess
B	37 mm	Width of inner ring
B_1	36.9 mm	Overall bearing width
B_1	55 mm	Width of sleeve
D_{b1}	107 mm	Top external diameter
D_{b2}	115 mm	Base external diameter
D_c	101.6 mm	Diameter of housing centering recess
H	195 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	52.25 mm	Overall unit width
Value specified for s_1		

Threaded hole

R_G	1/4-28 UNF	Housing thread for grease fitting
R_1	23.5 mm	Axial position of the housing thread
R_α	45 °	Angular position of the housing thread

Grease fitting

D_N	6.5 mm	Diameter of head sphere of grease fitting
SW	7 mm	Hexagonal key size for the grease fitting
G_N	1/4-28 SAE-LT	Thread of grease fitting

Dowel pins

J_6	127 mm	Distance of dowel pins
J_7	20 mm	Axial offset of dowel pins
N_4	2 mm	Recommended diameter for dowel pins

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		4 000 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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