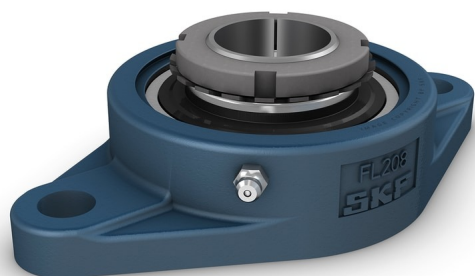


FYTJ 45 KFOval flanged ball bearing unit with adapter sleeve locking, cast iron housing, JIS



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	40 mm
Housing overall width	38 mm
Width, total	50.75 mm
Centre distance between bolt holes	148 mm
Bearing width, total	34.9 mm

Performance

Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Limiting speed	4 300 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

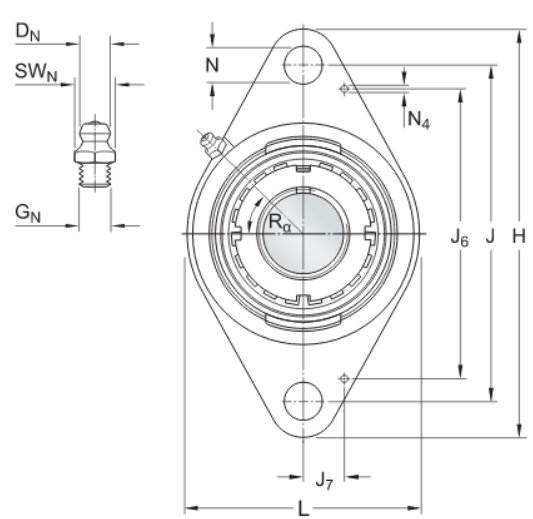
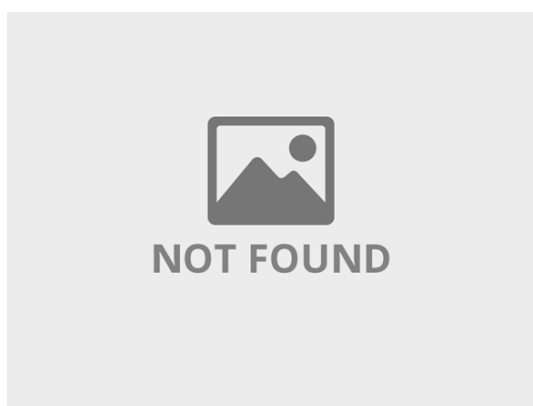
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

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	40 mm	Bore diameter
d_1	≈ 56.8 mm	Outer diameter of inner ring
d_3	65 mm	Outside diameter of lock nut
A	38 mm	Overall width
A_1	18 mm	Flange width
A_3	3.2 mm	Depth of centring recess
B	35 mm	Width of inner ring
B_1	34.9 mm	Overall bearing width
B_1	50 mm	Width of sleeve
D_{b1}	102 mm	Top external diameter
D_{b2}	108 mm	Base external diameter
D_c	98.4 mm	Diameter of housing centering recess
H	188 mm	Overall height
J	148 mm	Distance between attachment bolts



L	108 mm	Overall length
N	19 mm	Diameter of attachment bolt hole
s ₁	28.75 mm	Distance from locking device side face to raceway centre
T	50.75 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 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	120 mm	Distance of dowel pins
J ₇	18 mm	Axial offset of dowel pins
N ₄	2 mm	Recommended diameter for dowel pins

Calculation data

Basic dynamic load rating	C	33.2 kN
Basic static load rating	C ₀	21.6 kN
Fatigue load limit	P _u	0.915 kN
Limiting speed		4 300 r/min

Mass

Mass bearing unit	1.75 kg
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Mounting information

Associated spanner		HN 9
Recommended lock nut tightening angle	α	110 °
Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

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