

FYC 45 TFRound flanged ball bearing unit with set screw locking, cast iron housing, JIS

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These round flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). 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	45 mm
Housing overall width	37.5 mm
Width, total	40.2 mm
Pitch diameter of bolt holes of round and triangle flange type housing	132 mm
Bearing width, total	49.2 mm

Performance

Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 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	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

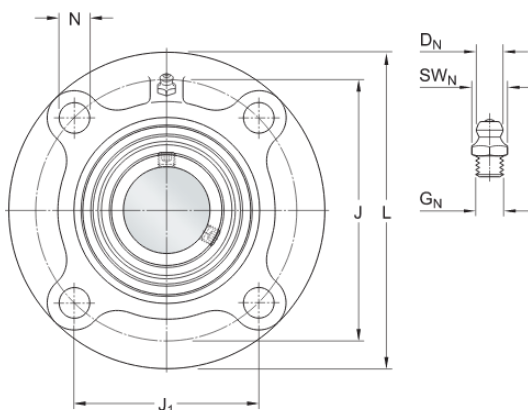
Technical Specification

Compliance with standard	JIS
Purpose specific	For agricultural 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	≈ 56.8 mm	Outer diameter of inner ring
A	37.5 mm	Housing width
A_1	14 mm	Flange width
A_3	12 mm	Height of spherical seat centre
B	49.2 mm	Width of inner ring
B_1	49.2 mm	Overall bearing width
B_4	8 mm	Distance from locking device side face to thread centre
D_b	106.1 mm	External diameter
D_c	105 mm	Centering diameter
J	132 mm	Pitch diameter of attachment bolts
J_1	93.3 mm	Distance between attachment bolts
L	160 mm	Overall width
N	16 mm	Length of attachment bolt hole



s_1	30.2 mm	Distance from locking device side face to raceway centre
T	40.2 mm	Overall unit width

Threaded hole

R_G	1/4-28 UNF	Housing thread for grease fitting
R_1	21 mm	Axial 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

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
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	2.6 kg
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Mounting information

Set screw	G_2	M8x1
Hexagonal key size for set screw		4 mm

Recommended tightening torque for set screw		6.5 N·m
Recommended diameter for attachment bolts, mm	G	14 mm
Recommended diameter for attachment bolts, inch	G	0.5625 in

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