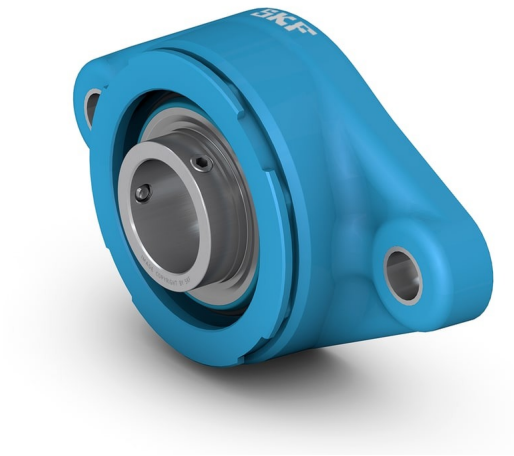


F2BC 100-TPSSOval flanged ball bearing unit with set screw locking and extended inner ring, composite housing, SKF Food Line

Oval flanged ball bearing unit with set screw locking and extended inner ring, composite housing, SKF Food Line

These oval flanged ball bearing units are designed especially for the food and beverage industries. They are chemical resistant, lightweight and strong. The unit consists of an insert bearing, with an extended inner ring and set screw locking, and is suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a composite 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.

- Chemical resistant
- Lubricated for life with a non-toxic food grade grease
- Lightweight
- Strong

Overview

Dimensions

Shaft diameter	25.4 mm
Housing overall width	29 mm
Centre distance between bolt holes	99 mm
Bearing width, total	34.1 mm

Performance

Basic dynamic load rating	11.9 kN
Basic static load rating	7.8 kN
Limiting speed	4 300 r/min
Note	Limiting speed with shaft tolerance h6

Properties

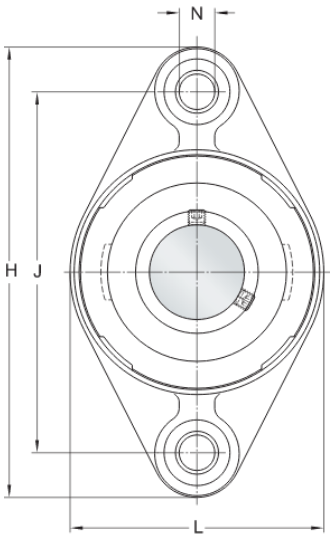
Housing type	Flanged
Flanged housing type	Oval
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical

Rubber seating ring	Without
Material, housing	Composite for the SKF Food Line
Material, bearing	Stainless steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, gutter
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

Technical Specification

Compliance with standard	Not standardized
Purpose specific	For food and beverage applications
Material, housing	Composite for the SKF Food Line
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, gutter
Sealing, unit	Optional end cover
Coating	Without

NOT FOUND



Dimensions

d	25.4 mm	Bore diameter
d_1	≈ 33.74 mm	Outer diameter of inner ring
A	29 mm	Width of housing
A_1	15 mm	Flange width
A_5	55.6 mm	Width including end cover
B	34.1 mm	Width of inner ring
B_1	34.1 mm	Overall bearing width
B_4	5 mm	Distance from locking device side face to thread centre
D_b	69 mm	Top external diameter
D_c	62 mm	Diameter of housing centering recess
H	128 mm	Overall height
H_a	6 mm	Depth of housing centering recess
J	99 mm	Distance between attachment bolts
L	72 mm	Overall length
N	11.5 mm	Diameter of attachment bolt hole

s_1	19.8 mm		Distance from locking device side face to raceway centre
T	37 mm		Overall width

Calculation data

Basic dynamic load rating	C		11.9 kN
Basic static load rating	C_0		7.8 kN
Fatigue load limit	P_u		0.335 kN
Limiting speed			4 300 r/min
			Limiting speed with shaft tolerance h6

Mass

Mass bearing unit			0.29 kg

Mounting information

Set screw		G_2	1/4-28 UNF
Hexagonal key size for set screw			3.175 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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