

F2BSS 40M-TPSSOval flanged ball bearing unit with set screw locking, stainless steel housing



Oval flanged ball bearing unit with set screw locking, stainless steel housing

These oval flanged ball bearing units are designed especially for the food and beverage industries. 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 stainless steel 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
- Strong
- Lubricated for life with a non-toxic food grade grease
- Designed for high temperatures and speeds

Overview

Dimensions

Shaft diameter	40 mm
Housing overall width	38.9 mm
Width, total	53.2 mm
Centre distance between bolt holes	143.7 mm
Bearing width, total	49.2 mm

Performance

Basic dynamic load rating	24.7 kN
Basic static load rating	19 kN
Limiting speed	2 800 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

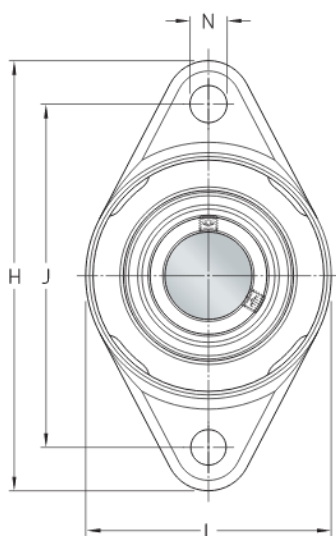
Material, housing	Stainless steel
Material, bearing	Stainless steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, gutter
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

Technical Specification

Compliance with standard	Not standardized
Purpose specific	For food and beverage applications
Material, housing	Stainless steel
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, gutter
Sealing, unit	Optional end cover
Coating	Without



Dimensions



d	40 mm	Bore diameter
d_1	≈ 51.8 mm	Outer diameter of inner ring
A	38.9 mm	Width of housing
A_1	14.3 mm	Flange width
A_5	68.8 mm	Width including end cover
B	49.2 mm	Width of inner ring
B_4	10 mm	Distance from locking device side face to thread centre
D_c	88 mm	Diameter of housing centering recess
H	171.5 mm	Overall height
H_a	6 mm	Depth of housing centering recess
J	143.7 mm	Distance between attachment bolts
L	95.1 mm	Overall length
N	14.3 mm	Diameter of attachment bolt hole

s_1	30.2 mm	Distance from locking device side face to raceway centre
T	53.2 mm	Overall width

Calculation data

Basic dynamic load rating	C	24.7 kN
Basic static load rating	C_0	19 kN
Fatigue load limit	P_u	0.8 kN
Limiting speed		2 800 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	1.7 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	12 mm
Recommended diameter for attachment bolts, inch	G	0.5 in

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