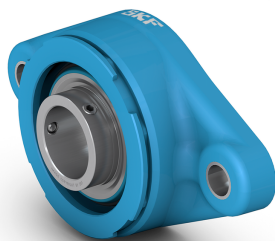


SKF F2BC 40M-TPSS



Oval flanged ball bearing unit with set screw locking and extended inner ring, co

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.

Technical specifications

General	
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

Dimensions	
Bore diameter	40 mm
Outer diameter of inner ring	51.8 mm
Width of housing	38 mm
Flange width	17 mm
Width including end cover	67.9 mm
Width of inner ring	49.2 mm
Overall bearing width	49.2 mm
Distance from locking device side face to thread centre	10 mm
Top external diameter	94 mm
Diameter of housing centering recess	88 mm
Overall height	178 mm
Depth of housing centering recess	6 mm
Centre distance between bolt holes	144 mm
Overall length	98 mm
Diameter of attachment bolt hole	14.2 mm
Distance from locking device side face to raceway centre	30.2 mm
Overall width	50.9 mm
Attachment bolt diameter	12 mm
Shaft diameter	40 mm
Housing overall width	38 mm
Bearing width, total	49.2 mm

Calculation data	
Basic dynamic load rating	24.7 kN
Basic static load rating	19 kN
Fatigue load limit	0.8 kN
Limiting speed	2800 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	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	12 mm
Recommended diameter for attachment bolts, inch	0.5 in

Performance	
Basic dynamic load rating	24.7 kN

Basic static load rating	19 kN
Limiting speed	2800 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

Logistics	
Product net weight	0.767 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings

