



SKF UCFL 207

Oval flange ball bearing unit with extended inner ring and set screw locking, cast

These oval flanged ball bearing units are compliant with JIS standards. 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.

Technical specifications

General	
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	Optional end cover
Coating	Without

Dimensions	
Bore diameter	35 mm
Outer diameter of inner ring	46.8 mm
Width of housing	32 mm
Flange width	14 mm
Width including end cover	24.5 mm
Width of inner ring	42.9 mm
Distance from locking device side face to thread centre	6.5 mm
Top external diameter	90 mm
Overall height	161 mm
Centre distance between bolt holes	130 mm
Overall length	90 mm
Diameter of attachment bolt hole	16 mm
Distance from locking device side face to raceway centre	25.4 mm
Overall width	44.4 mm
Housing thread for grease fitting	1/4-28 UNF
Axial position of the housing thread	22.5 mm
Angular position of the housing thread	45 °
Diameter of head sphere of grease fitting	6.6 mm
Hexagonal key size for the grease fitting	7.94 mm
Thread of grease fitting	1/4-28 UNF
Attachment bolt diameter	14 mm
Shaft diameter	35 mm
Housing overall width	32 mm
Width, total	44.4 mm
Bearing width, total	42.9 mm

Calculation data	
Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Fatigue load limit	0.655 kN
Limiting speed	4300 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	M8x1
Hexagonal key size for set screw	4.06 mm
Recommended tightening torque for set screw	6.5 N·m
Recommended diameter for attachment bolts, mm	14 mm

Recommended diameter for attachment bolts, inch	0.5625 in
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Performance	
Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	4300 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	Cast iron
Material, bearing	Bearing steel
Coating	Without
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	1.19 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

