



SKF FYJ 45 KF

Square flanged ball bearing unit for adapter sleeve locking, cast iron housing, JIS

These square flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). They consist of an insert bearing, locked to the shaft with an adapter sleeve, which enables the bearings to operate at higher speeds and run more smoothly. 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. The adapter sleeve is not included in the unit and should be ordered separately.

Technical specifications

General	
Compliance with standard	Order adapter sleeve separately 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	Without
Coating	Without

Dimensions	
Bore diameter	40 mm
Outer diameter of inner ring	56.8 mm
Outside diameter of lock nut	65 mm
Width of housing	38 mm
Flange width	16 mm
Depth of centring recess	3.2 mm
Width of sleeve	50 mm
Top external diameter	107 mm
Base external diameter	108 mm
Diameter of housing centering recess	119.1 mm
Centre distance between bolt holes	105 mm
Overall length	137 mm
Diameter of attachment bolt hole	16 mm
Distance from locking device side face to raceway centre	28.75 mm
Overall width	50.75 mm
	Value specified for $s_{>1}$ is approximate and before the sleeve is driven into the bearing bore (sleeve and inner ring bore at starting position).
Housing thread for grease fitting	1/4-28 UNF
Axial position of the housing thread	22 mm
Diameter of head sphere of grease fitting	6.5 mm
Hexagonal key size for the grease fitting	7 mm
Thread of grease fitting	1/4-28 SAE-LT
Distance of dowel pins	123 mm
Axial offset of dowel pins	33.5 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	14 mm
Shaft diameter	40 mm
Housing overall width	38 mm
Width, total	50.75 mm
Bearing width, total	34.9 mm

Calculation data	
Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Fatigue load limit	0.915 kN

Limiting speed	4300 r/min
----------------	------------

Mounting information

Associated spanner	HN 9
Recommended lock nut tightening angle	110 °
Recommended diameter for attachment bolts, mm	14 mm
Recommended diameter for attachment bolts, inch	0.5625 in

Performance

Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Limiting speed	4300 r/min

Properties

Associated mounting tool	HN 9
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Retaining feature, inner ring	Adapter sleeve
Bore type	Tapered
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

Logistics

Product net weight	2 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

