



SKF FYJ 90 TF

Square flanged ball bearing unit with set screw locking, cast iron housing, JIS

These square flanged ball bearing units are compliant with Japanese Industrial Standards (JIS). 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	Without
Coating	Without

Dimensions	
Bore diameter	90 mm
Outer diameter of inner ring	112.5 mm
Width of housing	63.5 mm
Flange width	23 mm
Depth of centring recess	3.2 mm
Width of inner ring	89 mm
Overall bearing width	89 mm
Distance from locking device side face to thread centre	12 mm
Top external diameter	187 mm
Base external diameter	201 mm
Diameter of housing centering recess	193.7 mm
Centre distance between bolt holes	187 mm
Overall length	235 mm
Diameter of attachment bolt hole	23 mm
Distance from locking device side face to raceway centre	54 mm
Overall width	94 mm
Housing thread for grease fitting	1/4-28 UNF
Axial position of the housing thread	40 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	207 mm
Axial offset of dowel pins	52.5 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	20 mm
Shaft diameter	90 mm
Housing overall width	63.5 mm
Width, total	94 mm
Bearing width, total	89 mm

Calculation data	
Basic dynamic load rating	95.6 kN
Basic static load rating	72 kN
Fatigue load limit	2.7 kN
Limiting speed	2000 r/min
	Limiting speed with shaft tolerance h6

Mounting information	

Set screw	M12x1.5
Hexagonal key size for set screw	6 mm
Recommended tightening torque for set screw	28.5 N·m
Recommended diameter for attachment bolts, mm	20 mm
Recommended diameter for attachment bolts, inch	0.75 in

Performance	
Basic dynamic load rating	95.6 kN
Basic static load rating	72 kN
Limiting speed	2000 r/min
Note	Limiting speed with shaft tolerance h6

Properties	
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
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	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	10.8 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

