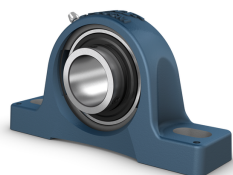


SKF SYJ 55 TF



Pillow block ball bearing unit with extended inner ring and set screw locking, cast iron housing

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing that can be bolted to a support surface. This variant is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening a set screw on the inner ring, making it easy to mount.

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	55 mm
Shoulder diameter of inner ring	69.06 mm
Base width	60 mm
Top width	40 mm
Width of inner ring	55.6 mm
Distance from locking device side face to thread centre	9 mm
Height of spherical seat centre	63.5 mm
Foot height	24 mm
Overall height	126 mm
Distance between attachment bolts	171.5 mm
Maximum distance between attachment bolts	180 mm
Minimum distance between attachment bolts	163 mm
Overall length	219 mm
Diameter of attachment bolt hole	20 mm
Length of attachment bolt hole	28.5 mm
Distance from locking device side face to raceway centre	33.4 mm
Housing thread for the grease fitting	1/4-28 UNF
Axial position of the housing thread	5 mm
Angular position of the housing thread	45 °
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	201 mm
Axial offset of dowel pins	21 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	16 mm
Shaft diameter	55 mm
Centre height (pillow block)	63.5 mm
Housing overall width	60 mm
Centre distance between bolt holes	171.5 mm
Bearing width, total	55.6 mm

Calculation data	
Basic dynamic load rating	43.6 kN
Basic static load rating	29 kN
Fatigue load limit	1.25 kN
Limiting speed	3600 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	M10x1
Hexagonal key size for set screw	5 mm
Recommended tightening torque for set screw	16.5 N·m
Recommended diameter for attachment bolts, mm	16 mm
Recommended diameter for attachment bolts, inch	0.625 in

Performance	
Basic dynamic load rating	43.6 kN
Basic static load rating	29 kN
Limiting speed	3600 r/min
Note	Limiting speed with shaft tolerance h6

Properties	
Housing type	Pillow block, normal base
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	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	3.5 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings