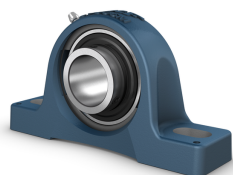


SKF SY 50 TF



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	ISO
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	50 mm
Shoulder diameter of inner ring	62.51 mm
Base width	54 mm
Top width	34 mm
Standout of end cover	33 mm
Width of inner ring	51.6 mm
Distance from locking device side face to thread centre	9 mm
Height of spherical seat centre	57.2 mm
Foot height	22 mm
Overall height	114 mm
Distance between attachment bolts	157 mm
Maximum distance between attachment bolts	165 mm
Minimum distance between attachment bolts	149 mm
Overall length	203 mm
Diameter of attachment bolt hole	18 mm
Length of attachment bolt hole	26 mm
Distance from locking device side face to raceway centre	32.6 mm
Housing thread for the grease fitting	1/4-28 UNF
Axial position of the housing thread	4 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	187 mm
Axial offset of dowel pins	19 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	16 mm
Shaft diameter	50 mm
Centre height (pillow block)	57.2 mm
Housing overall width	54 mm
Centre distance between bolt holes	157 mm
Bearing width, total	51.6 mm
Calculation data	
Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Fatigue load limit	0.98 kN
Limiting speed	4000 r/min

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	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	4000 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	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	2.61 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings

