



SKF SY 50 TF/VA201

Pillow block ball bearing unit with extended inner ring and set screw locking, high

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 high temperature applications, and for 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	
Running in required	Yes

Dimensions	
Shaft diameter	50 mm
Shoulder diameter inner ring	62.51 mm
Base width	54 mm
Top width	34 mm
Width inner ring	51.6 mm
Distance from locking device side face to thread centre	9 mm
Spherical seat centre height	57.2 mm
Step height	22 mm
Overall height	114 mm
Distance between attachment bolts	157 mm
Minimum distance between attachment bolts	149 mm
Maximum distance between attachment bolts	165 mm
Overall width	203 mm
Width 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
Attachment bolt diameter	16 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
Limiting speed	60 r/min
Operating temperature	250 °C

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

Performance	
Basic dynamic load rating	35.1 kN
Basic static load rating	23.2 kN
Limiting speed	60 r/min
Maximum operating temperature	250 °C

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	High temperature steel
Coating	Zinc-coated housing and manganese phosphate coated bearing
Sealing, bearing	Shield and flinger on both sides
Sealing type	Non-contact
Sealing, unit	Without
Lubricant	Solid lubricant
Relubrication hole	Without
Grease fitting	Without

Logistics	
Product net weight	2.74 kg
eClass code	23-05-90-90
UNSPSC code	31171536

SKF drawings