



SKF SYJ 55 KF

Pillow block ball bearing unit for adapter sleeve locking, cast iron, Japanese standard

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a housing that can be bolted to a support surface. This variant is locked with an adapter sleeve, enabling quick and easy mounting onto the shaft. 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
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	50 mm
Shoulder diameter of inner ring	69.06 mm
Outside diameter of lock nut	75 mm
Base width	60 mm
Top width	40 mm
Overall bearing width	39.9 mm
Width of sleeve	59 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	32.5 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). 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	50 mm
Centre height (pillow block)	63.5 mm
Housing overall width	60 mm
Centre distance between bolt holes	171.5 mm
Bearing width, total	39.9 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

Mounting information	
Associated spanner	HN 11
Recommended lock nut tightening angle	90 °
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

Properties	
Associated mounting tool	HN 11
Housing type	Pillow block, normal base
Number of bolt holes for fasteners	2
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	3.4 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

