



SKF SYJ 45 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	40 mm
Shoulder diameter of inner ring	56.8 mm
Outside diameter of lock nut	65 mm
Base width	52 mm
Top width	36 mm
Overall bearing width	34.9 mm
Width of sleeve	50 mm
Height of spherical seat centre	54 mm
Foot height	20 mm
Overall height	107.5 mm
Distance between attachment bolts	143.5 mm
Maximum distance between attachment bolts	151 mm
Minimum distance between attachment bolts	136 mm
Overall length	190 mm
Diameter of attachment bolt hole	17 mm
Length of attachment bolt hole	24.5 mm
Distance from locking device side face to raceway centre	28.75 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	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	174 mm
Axial offset of dowel pins	18 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	14 mm
Shaft diameter	40 mm
Centre height (pillow block)	54 mm
Housing overall width	52 mm
Centre distance between bolt holes	143.5 mm
Bearing width, total	34.9 mm

Calculation data

Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Fatigue load limit	0.915 kN
Limiting speed	4300 r/min

Mounting information	
Associated spanner	HN 9
Recommended lock nut tightening angle	110 °
Recommended diameter for attachment bolts, mm	14 mm
Recommended diameter for attachment bolts, inch	0.5625 in

Performance	
Basic dynamic load rating	33.2 kN
Basic static load rating	21.6 kN
Limiting speed	4300 r/min

Properties	
Associated mounting tool	HN 9
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	2.14 kg
eClass code	23-05-16-02
UNSPSC code	31171536

SKF drawings

