



SKF SY 30 WF

Pillow block ball bearing unit with extended inner ring and eccentric locking collar

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 intended for use in applications where the direction of rotation is constant. It has an extended inner ring on both sides and is locked onto the shaft by an eccentric locking collar, making it easy to mount.

Technical specifications

General	
Compliance with standard	ISO
Purpose specific	For material handling applications; For air 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	30 mm
Shoulder diameter of inner ring	39.7 mm
Outside diameter of locking ring	44.1 mm
Base width	40 mm
Top width	25 mm
Standout of end cover	22.5 mm
Width of inner ring	36.5 mm
Overall bearing width	48.4 mm
Distance from locking device side face to thread centre	5.95 mm
Height of spherical seat centre	42.9 mm
Foot height	17 mm
Overall height	82 mm
Distance between attachment bolts	117.5 mm
Maximum distance between attachment bolts	127 mm
Minimum distance between attachment bolts	108 mm
Overall length	152 mm
Diameter of attachment bolt hole	14 mm
Length of attachment bolt hole	23.5 mm
Distance from locking device side face to raceway centre	30.1 mm
Housing thread for the grease fitting	1/4-28 UNF
Axial position of the housing thread	3 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	140 mm
Axial offset of dowel pins	14 mm
Recommended diameter for dowel pins	4 mm
Attachment bolt diameter	12 mm
Shaft diameter	30 mm
Centre height (pillow block)	42.9 mm
Housing overall width	40 mm
Centre distance between bolt holes	117.5 mm
Bearing width, total	48.4 mm

Calculation data	
Basic dynamic load rating	19.5 kN

Basic static load rating	11.2 kN
Fatigue load limit	0.475 kN
Limiting speed	6300 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	M8x1
Hexagonal key size for set screw	4 mm
Recommended tightening torque for set screw	6.5 N·m
Recommended diameter for attachment bolts, mm	12 mm
Recommended diameter for attachment bolts, inch	0.5 in

Performance	
Basic dynamic load rating	19.5 kN
Basic static load rating	11.2 kN
Limiting speed	6300 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	Eccentric collar
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	1.13 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings



