



SKF UCPA 207/H

Short base pillow block ball bearing unit with extended inner ring and set screw

Short base pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing. This variant has threaded holes for attachment bolts and is suitable for applications where the direction of rotation is constant or alternating. It has an inner ring extended on both sides and is locked onto the shaft by tightening two set screws on the inner ring, making it easy to mount. The units are compliant with Japanese Industrial Standards (JIS).

Technical specifications

General	
Compliance with standard	JIS
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	Without
Coating	Without

Dimensions	
Bore diameter	35 mm
Shoulder diameter of inner ring	46.1 mm
Base width	42 mm
Top width	22 mm
Width of inner ring	42.9 mm
Distance from locking device side face to thread centre	6 mm
Height of spherical seat centre	47.6 mm
Foot height	12.5 mm
Overall height	93 mm
Centre distance between bolt holes	80 mm
Overall length	110.5 mm
Distance from locking device side face to raceway centre	25.4 mm
Housing thread for the grease fitting	1/4-28 UNF
Axial position of the housing thread	3.5 mm
Angular position of the housing thread	45 °
Diameter of head sphere of grease fitting	6.6 mm
Hexagonal key size for the grease fitting	7.94 mm
Thread of grease fitting	1/4-28 UNF
Shaft diameter	35 mm
Centre height (pillow block)	47.6 mm
Housing overall width	42 mm
Bearing width, total	42.9 mm

Calculation data	
Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Fatigue load limit	0.655 kN
Limiting speed	4300 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Thread for attachment bolts	M14
Thread length	20 mm
Set screw	M6x0.75
Hexagonal key size for set screw	3 mm
Recommended tightening torque for set screw	4 N·m

Performance	

Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	4300 r/min
Note	Limiting speed with shaft tolerance h6

Properties	
Housing type	Pillow block, short base
Number of bolt holes for fasteners	2
Fastening bolt hole type	Threaded
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	Without
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	1.41 kg

SKF drawings