



SKF SYNT 70 F

Pillow block roller bearing unit, metric series

Roller bearing units are robust, ready-to-mount units that are lubricated and sealed at the factory for maximum service life. Pillow (plummer) block units can support rotating shafts while standing on a flat surface, or hanging on a wall or ceiling. The SKF ConCentra locking combines easy mounting and a concentric tight fit on the shaft for high speeds and low vibration.

Technical specifications

General	
Metric/inch series	Metric
Bearing insert	Spherical roller bearing
Bearing position	Locating
Locking method	SKF ConCentra
Bearing housing seal type	Radial lip seal

Dimensions	
Shaft diameter	70 mm
Collar outer diameter	96 mm
Housing foot width	90 mm
Inner ring width	72 mm
Height base to center	95 mm
Housing foot height	32 mm
Housing height	176 mm
Distance of attachment bolts	260 mm
Housing length	315 mm
Width of attachment bolt hole	22 mm
Length of attachment bolt hole	28 mm
Distance bearing centre line to end cover	80 mm
Distance bearing centre line to shaft end	70 mm
Distance bearing centre line to shaft end	38 mm
Distance dowel pins	290 mm
Distance dowel pins	32.5 mm
Pin hole diameter	8 mm
Centre height (pillow block)	95 mm
Housing overall width	90 mm
Centre distance between bolt holes	260 mm
Attachment bolt diameter	20 mm
Bearing width, total	72 mm

Calculation data	
Basic dynamic load rating	208 kN
Basic static load rating	228 kN
Fatigue load limit	25.5 kN
Limiting speed	2600 r/min
Limiting value	0.22
Calculation factor	3
Calculation factor	4.6
Calculation factor	2.8
Bearing mean diameter	97.5 mm
Axial holding force of the locking mechanism	20 kN

Breaking loads	
Breaking load	350 kN
Breaking load	400 kN
Breaking load	240 kN
Breaking load	160 kN

Breaking load	145 kN
Breaking load	215 kN

Mounting information	
Attachment bolt diameter	20 mm
Tightening torque for attachment bolts	385 N·m
Set screws	M6
Number of set screws	4
Tightening torque for set screws	8 N·m
Grease quantity for relubrication	8 g

Performance	
Basic dynamic load rating	208 kN
Basic static load rating	228 kN
Limiting speed	2600 r/min

Properties	
Housing type	Pillow block
Number of bolt holes for fasteners	2
Bearing insert	Spherical roller bearing
Retaining feature, inner ring	SKF ConCentra
Bearing position	Locating
Bore type	Cylindrical
Material, housing	Cast iron
Material, bearing	Bearing steel
Coating	Without
Bearing housing seal type	Radial lip seal
Sealing, unit	Optional end cover
Lubricant	Grease
Relubrication hole	With
Grease fitting	With

Logistics	
Product net weight	11.2 kg
eClass code	23-05-16-90
UNSPSC code	31171537

SKF drawings



