

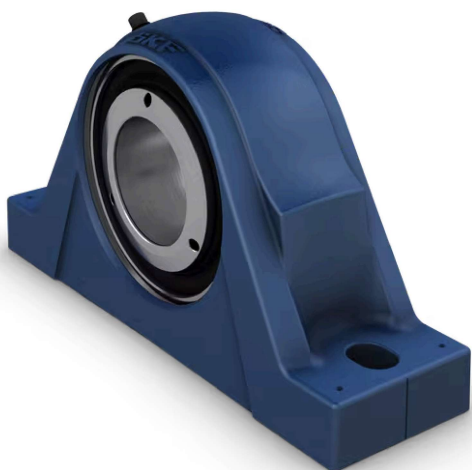


Image may differ from product. See technical specification for details.

SYNT 45 F

Pillow block roller bearing unit, two-bolt, SKF ConCentra locking

Pillow (plummer) block roller bearing units and take-up roller bearing units consist of a spherical or tapered roller bearing mounted in a non-split housing that can be bolted to a support surface. This variant has a spherical roller bearing, a two-bolt base and SKF ConCentra locking, creating a true concentric tight fit, and setting the correct internal

clearance within the bearing. The units are sealed and lubricated and ready to use. This bearing unit covers a wide range of requirements, in metric dimensions.

- Ready to mount
- Robust
- Factory lubricated and sealed
- Quick mounting
- Long service life

Overview

Dimensions

Shaft diameter	45 mm
Centre height (pillow block)	60 mm
Housing overall width	60 mm
Centre distance between bolt holes	170 mm
Attachment bolt diameter	12 mm
Bearing width, total	65 mm

Performance

Basic dynamic load rating	102 kN
Basic static load rating	98 kN
Limiting speed	3 500 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

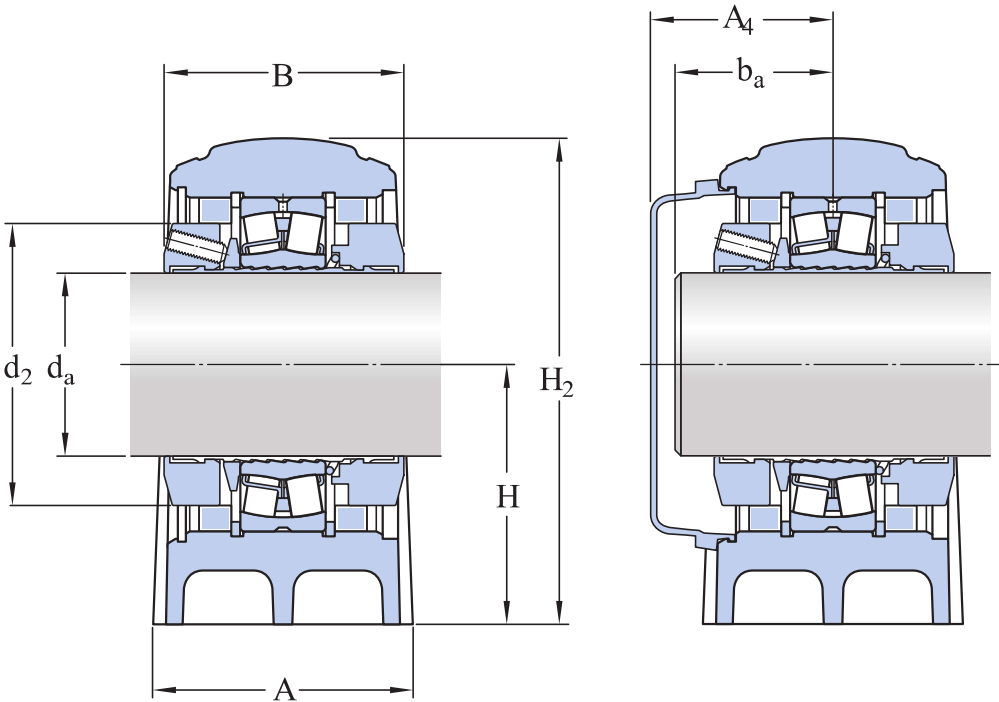
Logistics

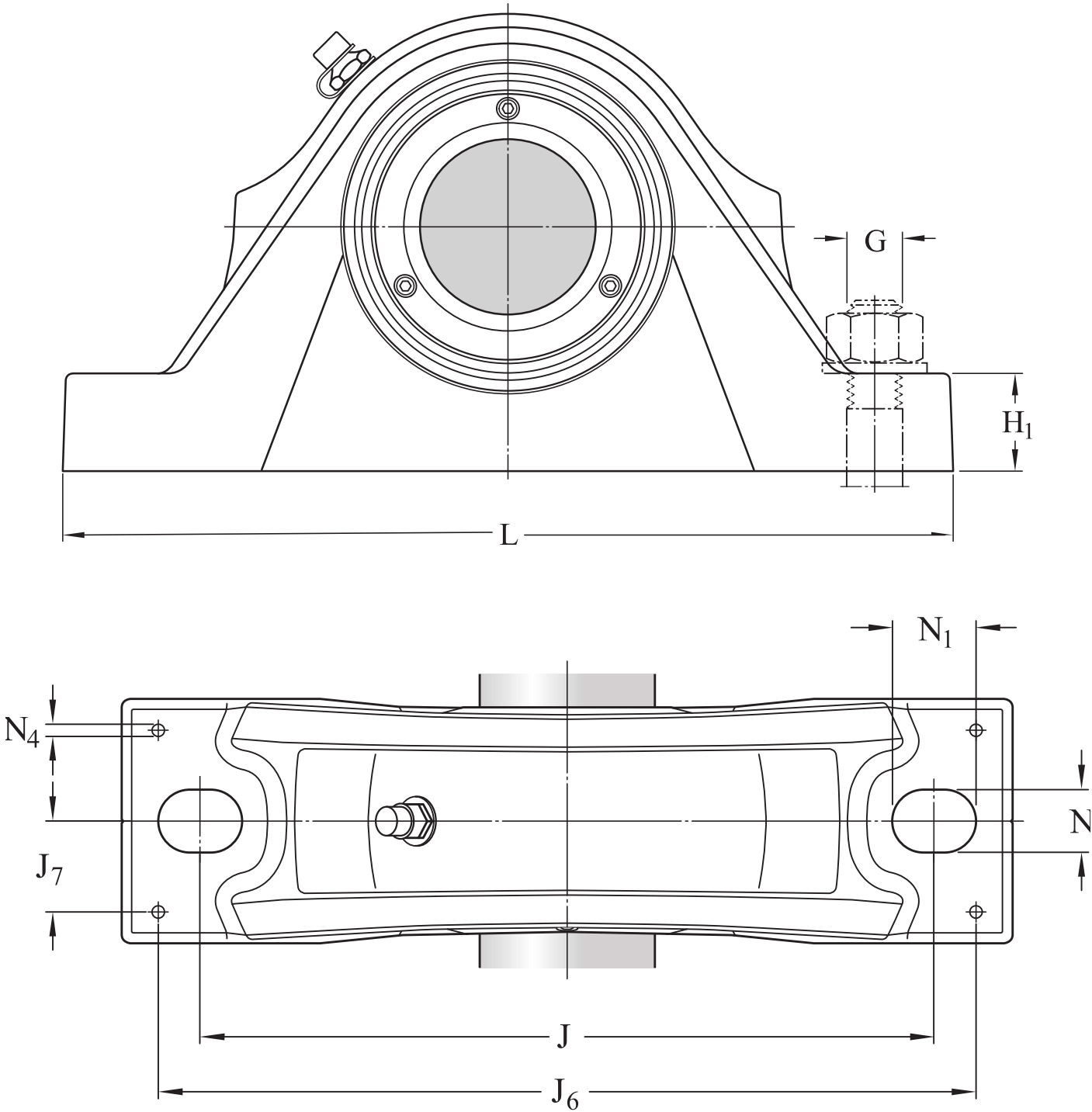
Product net weight	4 kg
eClass code	23-05-16-90

UNSPSC code	31171537
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Technical specification

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





Dimensions

d_a	45 mm	Shaft diameter
d_2	71 mm	Collar outer diameter
A	60 mm	Housing foot width
B	65 mm	Inner ring width

H	60 mm	Height base to center
H ₁	25 mm	Housing foot height
H ₂	118 mm	Housing height
J	170 mm	Distance of attachment bolts
L	205 mm	Housing length
N	15 mm	Width foot slot width
N ₁	20 mm	Length of attachment bolt hole

SHAFT END

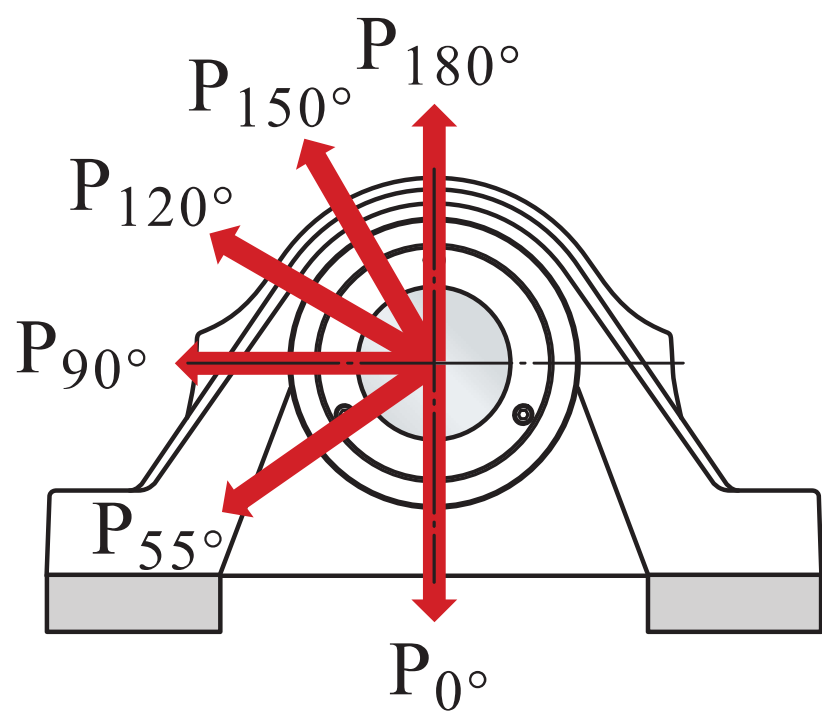
A ₄	52 mm	Distance bearing centre line to end cover
b _a	max. 43 mm	Distance bearing centre line to shaft end
b _a	min. 34 mm	Distance bearing centre line to shaft end

DOWEL PINS

J ₆	185 mm	Distance dowel pins
J ₇	21 mm	Distance dowel pins
N ₄	6 mm	Pin hole diameter

Calculation data

Basic dynamic load rating	C	102 kN
Basic static load rating	C ₀	98 kN
Fatigue load limit	P _u	10.8 kN
Limiting speed		3 500 r/min
Limiting value	e	0.26
Calculation factor	Y ₁	2.6
Calculation factor	Y ₂	3.9
Calculation factor	Y ₀	2.5
Bearing mean diameter	d _m	65 mm
Axial holding force of the locking mechanism	P _a	15 kN



Breaking loads

P0°	170 kN	Breaking load
P55°	280 kN	Breaking load
P90°	170 kN	Breaking load
P120°	110 kN	Breaking load
P150°	100 kN	Breaking load
P180°	115 kN	Breaking load

Mounting information

Attachment bolt diameter	G	12 mm
Tightening torque for attachment bolts		80 N·m
Set screws		M6
Number of set screws		3
Tightening torque for set screws		8 N·m
Grease quantity for relubrication		4 g

Compatible products

Recommended product

End cover for bearing units

[ECY 209](#)

More Information

 Product details	 Engineering information	 Engineering tools
Pillow block units - metric series	Principles of selecting mounted bearing solutions	SKF Product select
Pillow block units - inch series	Bearing failure and how to prevent it	SKF mounting and dismounting instructions
Permissible misalignment		
Locating / non-locating support		
Loads		
Temperature limits		
Permissible speed		
Lubrication		
Mounting and dismounting		
Condition Monitoring		
Associated products		
Ordering information		
Designation system for SKF Pillow block roller bearing units		



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