



P 20 TFPillow block ball bearing unit with pressed steel housing and extended inner ring

Pillow block ball bearing unit with pressed steel housing and extended inner ring

Pillow (plummer) block ball bearing units consisting of an insert bearing mounted in a pressed steel housing that can be bolted to a support surface. In addition to being part of a unit, some pillow block housings for insert bearings are available as separate components. The SKF assortment includes units that are compliant with several industrial standards and meet many requirements.

- Ready to mount
- Lubricated and sealed bearings
- Quick locking on the shaft
- Large variety of housing shapes, housing materials, and locking methods
- Concentric locking options for high speeds and low vibration

Overview

Dimensions

Shaft diameter	20 mm
Centre height (pillow block)	25.3 mm
Housing overall width	32 mm
Centre distance between bolt holes	76 mm
Bearing width, total	31 mm

Performance

Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	8 500 r/min
Note	Limiting speed with shaft tolerance h6

Properties

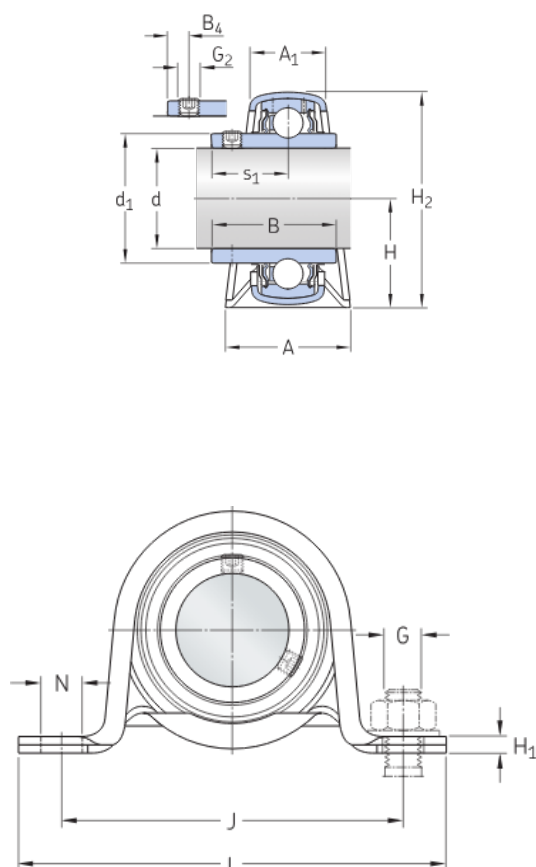
Housing type	Pillow block
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Pressed steel

Material, bearing	Bearing steel
Coating	Zinc-coated housing
Sealing, bearing	Seal and flinger on both sides
Sealing type	Contact, standard
Sealing, unit	Without
Lubricant	Grease
Relubrication hole	Without
Grease fitting	Without

Technical Specification

Compliance with standard	ISO with centre height deviation
Purpose specific	For material handling applications
Material, housing	Pressed steel
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Zinc-coated housing

Dimensions



d	20 mm	Bore diameter
d ₁	≈ 28.2 mm	Shoulder diameter of inner ring
A	32 mm	Base width
A ₁	21 mm	Top width
B	31 mm	Width of inner ring
B ₄	4.5 mm	Distance from locking device side face to thread centre
H	25.3 mm	Height of spherical seat centre
H ₁	3 mm	Foot height
H ₂	50.5 mm	Overall height
J	76 mm	Distance between attachment bolts
L	98.5 mm	Overall length
N	9.6 mm	Diameter of attachment bolt hole
s ₁	18.3 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	12.7 kN
Basic static load rating	C ₀	6.55 kN
Fatigue load limit	P _u	0.28 kN
Permissible radial housing load		max. 1.7 kN
Limiting speed		8 500 r/min

Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	0.24 kg
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Mounting information

Set screw	G ₂	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 N·m
Recommended diameter for attachment bolts, mm	G	8 mm
Recommended diameter for attachment bolts, inch	G	0.3125 in

Included products

Housing	P 47
Bearing	YAR 204-2F

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