



SKF P 20 TF

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.

Technical specifications

General	
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	
Bore diameter	20 mm
Shoulder diameter of inner ring	28.2 mm
Base width	32 mm
Top width	21 mm
Width of inner ring	31 mm
Distance from locking device side face to thread centre	4.5 mm
Height of spherical seat centre	25.3 mm
Foot height	3 mm
Overall height	50.5 mm
Distance between attachment bolts	76 mm
Overall length	98.5 mm
Diameter of attachment bolt hole	9.6 mm
Distance from locking device side face to raceway centre	18.3 mm
Attachment bolt diameter	8 mm
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

Calculation data	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Fatigue load limit	0.28 kN
Permissible radial housing load	1.7 kN
Limiting speed	8500 r/min
	Limiting speed with shaft tolerance h6

Mounting information	
Set screw	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	8 mm
Recommended diameter for attachment bolts, inch	0.3125 in

Included products	
Housing	P 47
Bearing	YAR 204-2F

Performance	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Limiting speed	8500 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	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

Logistics	
Product net weight	0.23 kg
eClass code	23-05-08-02
UNSPSC code	31171536

SKF drawings

