

PF 20 TF



Round flanged ball bearing unit with pressed steel housing

Round flanged ball bearing units with pressed steel housing consist of an insert bearing mounted in a pressed steel housing that can be bolted to a machine wall or frame. In addition to being part of a unit, housings and insert bearings are available as separate components. The SKF assortment includes ball bearing units compliant with several industrial standards, meeting many requirements regarding bolt patterns and mechanisms for locking onto on the shaft.

- Ready to mount
- Sealed bearings lubricated for life
- 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
Housing overall width	16 mm
Pitch diameter of bolt holes of round and triangle flange type housing	71.4 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

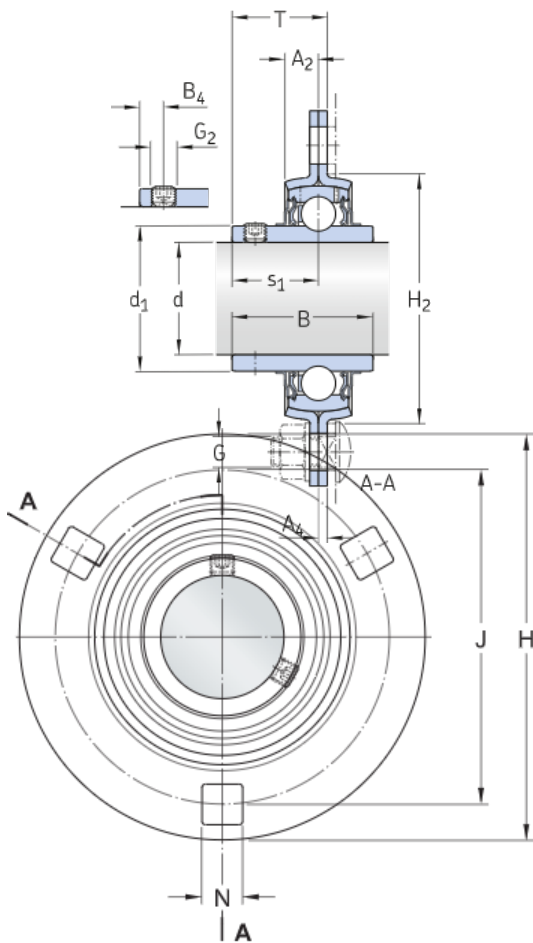
Housing type	Flanged
Flanged housing type	Round
Number of bolt holes for fasteners	3
Fastening bolt hole type	Plain
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Pressed steel
Material, bearing	Bearing steel
Coating	Zinc-coated housing
Sealing, 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
Purpose specific	For agricultural 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	Outer diameter of inner ring
A_2	8 mm	Width of housing half
A_4	2 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	90 mm	Overall length
H_2	min. 51 mm	Abutment diameter
J	71.4 mm	Pitch diameter of attachment bolts
N	8.7 mm	Length of attachment bolt hole
s_1	18.3 mm	Distance from locking device side face to raceway centre
T	20.3 mm	Overall unit width

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. 3.3 kN
Limiting speed		8 500 r/min

Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	0.31 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	PF 47
Bearing	YAR 204-2F

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