

SYF 20 TFShort base pillow block ball bearing unit with extended inner ring and set screw locking, cast iron

Short base pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing. This variant has threads for attachment bolts and is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening a set screw on the inner ring, making it easy to mount.

- Strong
- Ready to mount
- Designed for a constant and alternating rotation
- Lubricated and sealed bearing
- High degree of stiffness
- Narrow design

Overview

Dimensions

Shaft diameter	20 mm
Centre height (pillow block)	33.3 mm
Housing overall width	32 mm
Centre distance between bolt holes	50.8 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	Threaded
Retaining feature, inner ring	Set screws
Bore type	Cylindrical
Rubber seating ring	Without
Material, housing	Cast iron

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

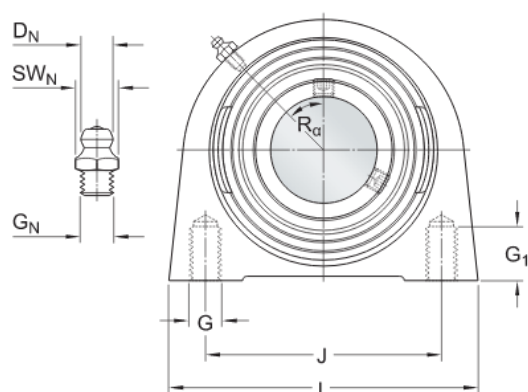
Technical Specification

Compliance with standard	Not standardized
Purpose specific	For material handling applications
Material, housing	Cast iron
Sealing, bearing	Seal and flinger on both sides
Sealing type, bearing	Contact, standard
Sealing, unit	Without
Coating	Without



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	33.3 mm	Height of spherical seat centre
H_2	64.5 mm	Overall height
J	50.8 mm	Distance between attachment bolts
L	65 mm	Overall length
s_1	18.3 mm	Distance from locking device side face to raceway centre



Threaded hole

R_G	1/4-28 UNF	Housing thread for the grease fitting
R_1	2 mm	Axial position of the housing thread

R_a 45 °	Angular position of the housing thread
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Grease fitting

D_N 6.5 mm	Diameter of head sphere of grease fitting
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SW 7 mm	Hexagonal key size for the grease fitting
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G_N 1/4-28 SAE-LT	Thread of grease fitting
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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
Limiting speed		8 500 r/min
		Limiting speed with shaft tolerance h6

Mass

Mass bearing unit	0.44 kg
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Mounting information

Thread for attachment bolts	G	M8
Thread length	G_1	14 mm
Set screw	G_2	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 N·m

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