

SY 20 TF/VA228

Pillow block ball bearing unit with extended inner ring and set screw locking, high temperature, cast iron, ISO standards

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing that can be bolted to a support surface. This variant is suitable for high temperature applications, and for 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
- For high temperature applications
- Designed for a constant and alternating rotation
- Ready to mount
- Lubricated and sealed bearing
- Quick locking onto the shaft

Overview

Dimensions

Bearing width, total	31 mm
Centre distance between bolt holes	97 mm
Centre height (pillow block)	33.3 mm
Housing overall width	32 mm
Shaft diameter	20 mm

Performance

Basic dynamic load rating	12 700 kN
Basic static load rating	6.55 kN
Limiting speed	260 r/min
Maximum operating temperature	350 °C

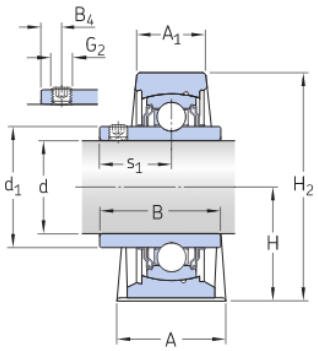
Properties

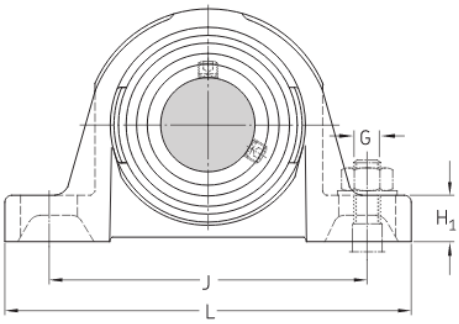
Bore type	Cylindrical
Coating	Zinc-coated housing and manganese phosphate coated bearing
Fastening bolt hole type	Plain
Grease fitting	Without
Housing type	Pillow block
Lubricant	Solid lubricant
Material, bearing	High temperature steel
Material, housing	Cast iron

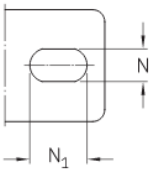
Number of bolt holes for fasteners	2
Relubrication hole	Without
Retaining feature, inner ring	Set screws
Rubber seating ring	Without
Sealing type	Non-contact
Sealing, bearing	Shield and flinger on both sides
Sealing, unit	Without

Technical Specification

Running in required	No







Dimensions

d	20 mm	Shaft diameter
d_1	≈ 28.2 mm	Shoulder diameter inner ring
A	32 mm	Base width
A_1	21 mm	Top width
B	31 mm	Width inner ring
B_4	4.5 mm	Distance from locking device side face to thread centre
H	33.3 mm	Spherical seat centre height
H_1	14 mm	Step height
H_2	64.5 mm	Overall height
J	97 mm	Distance between attachment bolts
J	min. 88 mm	Minimum distance between attachment bolts
J	max. 106 mm	Maximum distance between attachment bolts
L	127 mm	Overall width
N	11.5 mm	Width of attachment bolt hole
N_1	20.5 mm	Length 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
Limiting speed		260 r/min

Operating temperature	T	max. 350 °C

Mass

Mass bearing unit	0.56 kg

Mounting information

Set screw	G_2	M6x0.75
Hexagonal key size for set screw		3 mm
Recommended tightening torque for set screw		4 Nm
Attachment bolts, recommended metric size	G	10 mm
Attachment bolts, recommended inch size	G	0.375 in

Included products

Bearing	YAR 204-2F/VA228

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