

SY 40 TF/VA201



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

Shaft diameter	40 mm
Centre height (pillow block)	49.2 mm
Housing overall width	48 mm
Centre distance between bolt holes	135.5 mm
Bearing width, total	49.2 mm

Performance

Basic dynamic load rating	30.7 kN
Basic static load rating	19 kN
Limiting speed	70 r/min
Maximum operating temperature	250 °C

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

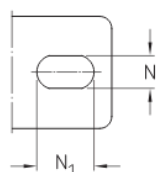
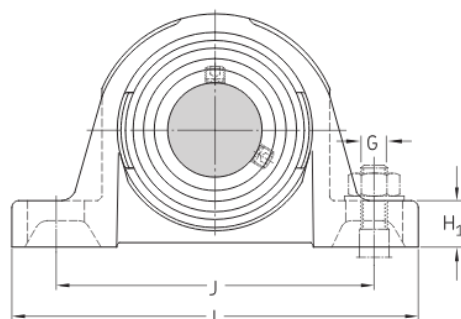
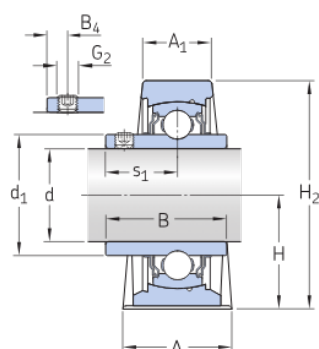
Material, housing	Cast iron
Material, bearing	High temperature steel
Coating	Zinc-coated housing and manganese phosphate coated bearing
Sealing, bearing	Shield and flinger on both sides
Sealing type	Non-contact
Sealing, unit	Without
Lubricant	Solid lubricant
Relubrication hole	Without
Grease fitting	Without mm

Technical Specification

Running in required

Yes

Dimensions



d	40 mm	Shaft diameter
d_1	≈ 51.8 mm	Shoulder diameter inner ring
A	48 mm	Base width
A_1	30 mm	Top width
B	49.2 mm	Width inner ring
B_4	8 mm	Distance from locking device side face to thread centre
H	49.2 mm	Spherical seat centre height
H_1	19 mm	Step height
H_2	99 mm	Overall height
J	135.5 mm	Distance between attachment bolts
J	min. 125 mm	Minimum distance between attachment bolts
J	max. 146 mm	Maximum distance between attachment bolts
L	175 mm	Overall width
N	14 mm	Width of attachment bolt hole
N_1	24.5 mm	Length of attachment bolt hole
s_1	30.2 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	30.7 kN
Basic static load rating	C_0	19 kN
Limiting speed		70 r/min

Operating temperature	T	max. 250 °C
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Mass

Mass bearing unit	1.8 kg
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Mounting information

Set screw	G ₂	M8x1
Hexagonal key size for set screw		4 mm
Recommended tightening torque for set screw		6.5 N·m
Attachment bolts, recommended metric size	G	12 mm
Attachment bolts, recommended inch size	G	0.5 in

Included products

Bearing	YAR 208-2F/VA201
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