



# SY 1.1/4 TF/VA228Pillow block ball bearing unit with extended inner ring and set screw locking, high temperature, cast iron, ISO standards

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	31.75 mm
Centre height (pillow block)	47.6 mm
Housing overall width	45 mm
Centre distance between bolt holes	126 mm
Bearing width, total	42.9 mm

## Performance

Basic dynamic load rating	25.5 kN
Basic static load rating	15.3 kN
Limiting speed	160 r/min
Maximum operating temperature	350 °C

## Properties

Housing type	Pillow block
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain



Retaining feature, inner ring	Set screws
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Bore type	Cylindrical
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Rubber seating ring	Without
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Material, housing	Cast iron
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Material, bearing	High temperature steel
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Coating	Zinc-coated housing and manganese phosphate coated bearing
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Sealing, bearing	Shield and flinger on both sides
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Sealing type	Non-contact
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Sealing, unit	Without
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Lubricant	Solid lubricant
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Relubrication hole	Without
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Grease fitting	Without
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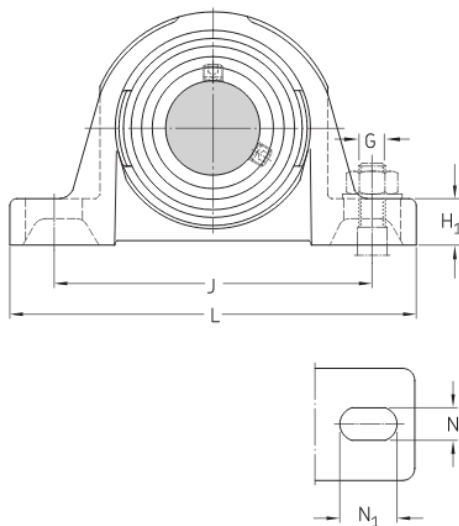
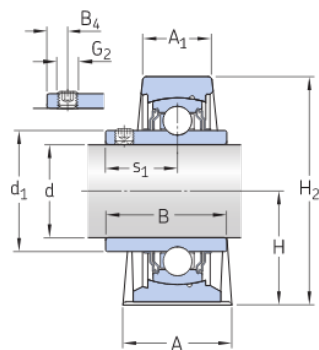


# Technical Specification

Running in required

No

## Dimensions



$d$	31.75 mm	Shaft diameter
$d_1$	$\approx 46.1$ mm	Shoulder diameter inner ring
$A$	45 mm	Base width
$A_1$	27 mm	Top width
$B$	42.9 mm	Width inner ring
$B_4$	6 mm	Distance from locking device side face to thread centre
$H$	47.6 mm	Spherical seat centre height
$H_1$	19 mm	Step height
$H_2$	93 mm	Overall height
$J$	126 mm	Distance between attachment bolts
$J$	min. 119 mm	Minimum distance between attachment bolts
$J$	max. 133 mm	Maximum distance between attachment bolts
$L$	160 mm	Overall width
$N$	14 mm	Width of attachment bolt hole
$N_1$	21 mm	Length of attachment bolt hole
$s_1$	25.4 mm	Distance from locking device side face to raceway centre

## Calculation data

Basic dynamic load rating	$C$	25.5 kN
Basic static load rating	$C_0$	15.3 kN



Limiting speed		160 r/min
Operating temperature	T	max. 350 °C

## Mass

Mass bearing unit		1.5 kg
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## Mounting information

Set screw	G <sub>2</sub>	5/16-24 UNF
Hexagonal key size for set screw		3.969 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 207-104-2F/VA228
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