

Image may differ from product. See technical specification for details.

## SY 509 M

**Pillow block housing for insert bearings, cast iron, ISO standards**

Pillow (plummer) block housings are designed to accommodate an insert bearing. The cast iron housings are strong, stiff and cost-effective. They are suitable for most applications and can be bolted directly to a support surface.

- Accommodate heavy loads in different directions
- High degree of stiffness
- Narrow design

Overview

Dimensions

Spherical seating diameter	85 mm
Centre height (pillow block)	54 mm
Housing overall width	48 mm
Centre distance between bolt holes	143.5 mm

Properties

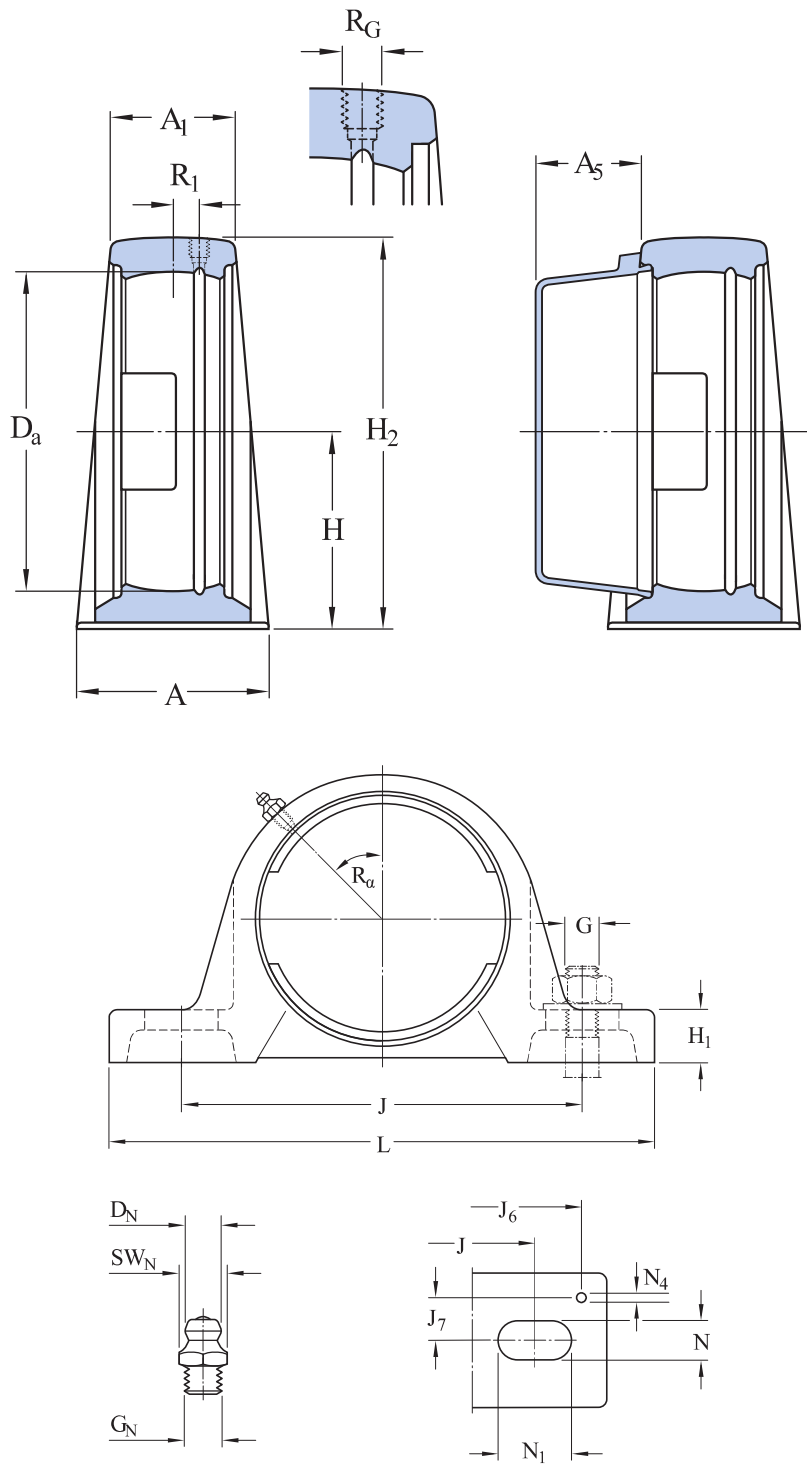
Housing type	Pillow block
Number of bolt holes for fasteners	2
Fastening bolt hole type	Plain
Material, housing	Cast iron
Coating	Without
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	1.47 kg
eClass code	23-05-08-02
UNSPSC code	31171536

# Technical specification

Material	Cast iron
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## Dimensions

D <sub>a</sub>	85 mm	Diameter of spherical seat
A	48 mm	Base width
A <sub>1</sub>	32 mm	Top width
A <sub>5</sub>	26.5 mm	Standout of end cover
H	54 mm	Height of spherical seat centre
H <sub>1</sub>	21 mm	Foot height
H <sub>2</sub>	107 mm	Overall height
J	143.5 mm	Distance between attachment bolts
J	max. 152 mm	Maximum distance between attachment bolts
J	min. 135 mm	Minimum distance between attachment bolts
L	187 mm	Overall length
N	14 mm	Width of attachment bolt hole
N <sub>1</sub>	22.5 mm	Length of attachment bolt hole

## GREASE FITTING

D <sub>N</sub>	6.5 mm	Diameter of head sphere of grease fitting
SW <sub>N</sub>	7 mm	Hexagonal key size for the grease fitting
G <sub>N</sub>	1/4-28 SAE-LT	Thread of the grease fitting

## DOWEL PINS

J <sub>6</sub>	173 mm	Distance between dowel pins
J <sub>7</sub>	17 mm	Axial offset of dowel pins
N <sub>4</sub>	4 mm	Recommended diameter for dowel pins

## THREADED HOLE

R <sub>G</sub>	1/4-28 UNF	Housing thread for the grease fitting
R <sub>1</sub>	4 mm	Axial position of the housing thread
R <sub>d</sub>	45 °	Angular position of the housing thread

### Mounting information

Recommended diameter for attachment bolts, mm	G	12 mm
Recommended diameter for attachment bolts, inch	G	0.5 in

### Associated products

End cover	ECY 209
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### Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → [table 1](#)
- Radial internal clearance → [table 2](#)
- Recommended fit → [table 3](#)
- Shaft tolerance → [table 4](#)

# Compatible products





## Recommended product

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End cover for bearing units

[ECY 209](#)

More Information

<div> <b>Product details</b></div> <div><a href="#">Pillow block units to ISO standards</a></div> <div><a href="#">Pillow block units to North American standards</a></div> <div><a href="#">Pillow block units to Japanese Industrial Standards (JIS)</a></div> <div><a href="#">Pillow block units, not standardized (incl. SKF Food Line)</a></div> <div><a href="#">Permissible misalignment</a></div> <div><a href="#">Locating/non-locating support</a></div> <div><a href="#">Loads</a></div> <div><a href="#">Temperature limits</a></div> <div><a href="#">Permissible speed</a></div> <div><a href="#">Lubrication</a></div> <div><a href="#">Mounting and dismounting</a></div> <div><a href="#">Ordering information</a></div> <div><a href="#">Designation system</a></div>	<div> <b>Engineering information</b></div> <div><div> <a href="#">Principles of ball bearing units selection and application - Download catalogue (4.9 MB)</a></div><div><a href="#">Principles of selecting mounted bearing solutions</a></div><div><a href="#">Bearing failure and how to prevent it</a></div></div>	<div> <b>Tools</b></div> <div><a href="#">SKF Product select</a></div> <div><a href="#">Bearing Frequency Calculator</a></div>
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