

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

SYF 509

Short base pillow block housing for insert bearings, cast iron

Short base pillow (plummer) block housings are designed to accommodate an insert bearing. They are strong, stiff and cost-effective, and are suitable for most applications. The housings has threads for attachment bolts so that it can be bolted directly to a support surface.

- Accommodate heavy loads in different directions
- Strong
- 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	95.3 mm

Properties

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

Logistics

Product net weight	1.28 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Material	Cast iron
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Dimensions

D _a	85 mm	Diameter of spherical seat
A	48 mm	Base width
A ₁	32 mm	Top width
H	54 mm	Height of spherical seat centre
H ₂	107.5 mm	Overall height
J	95.3 mm	Distance between attachment bolts
L	120 mm	Overall length

GREASE FITTING

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

THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R ₁	4 mm	Axial position of the housing thread
R _a	45 °	Angular position of the housing thread

Mounting information

Housing thread for attachment bolts	G	M12
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Thread length

G₁

22 mm

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](#)

More Information

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



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