

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

SYJ 514

Pillow block housing for insert bearings, cast iron, Japanese 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. This variant is compliant with Japanese standards.

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

Overview

Dimensions

| | |
|------------------------------------|---------|
| Spherical seating diameter | 125 mm |
| Centre height (pillow block) | 79.4 mm |
| Housing overall width | 72 mm |
| Centre distance between bolt holes | 210 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 |

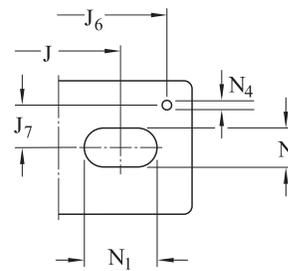
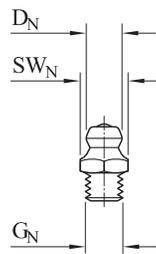
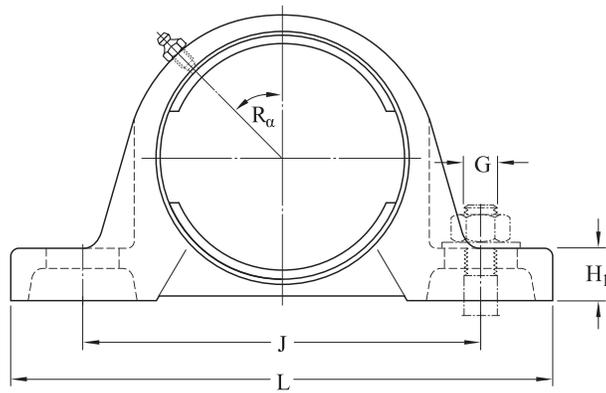
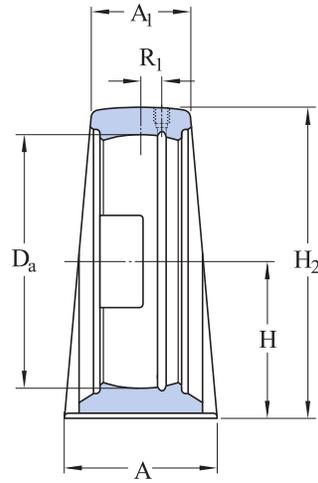
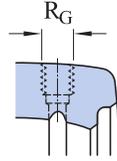
Logistics

| | |
|--------------------|-------------|
| Product net weight | 4.3 kg |
| eClass code | 23-05-16-02 |
| UNSPSC code | 31171536 |

Technical specification

Material

Cast iron



Dimensions

| | | |
|-------|-------------|---|
| D_a | 125 mm | Diameter of spherical seat |
| A | 72 mm | Base width |
| A_1 | 46 mm | Top width |
| H | 79.4 mm | Height of spherical seat centre |
| H_1 | 27 mm | Foot height |
| H_2 | 155.5 mm | Overall height |
| J | 210 mm | Distance between attachment bolts |
| J | max. 215 mm | Maximum distance between attachment bolts |
| J | min. 205 mm | Minimum distance between attachment bolts |
| L | 266 mm | Overall length |
| N | 25 mm | Width of attachment bolt hole |
| N_1 | 30 mm | Length of attachment bolt hole |

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 |

DOWEL PINS

| | | |
|-------|--------|-------------------------------------|
| J_6 | 246 mm | Distance between dowel pins |
| J_7 | 26 mm | Axial offset of dowel pins |
| N_4 | 4 mm | Recommended diameter for dowel pins |

THREADED HOLE

| | | |
|-------|------------|--|
| R_G | 1/4-28 UNF | Housing thread for the grease fitting |
| R_1 | 6 mm | Axial position of the housing thread |
| R_a | 45 ° | Angular position of the housing thread |

Mounting information

| | | |
|---|---|---------|
| Recommended diameter for attachment bolts, mm | G | 20 mm |
| Recommended diameter for attachment bolts, inch | G | 0.75 in |

Associated products

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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