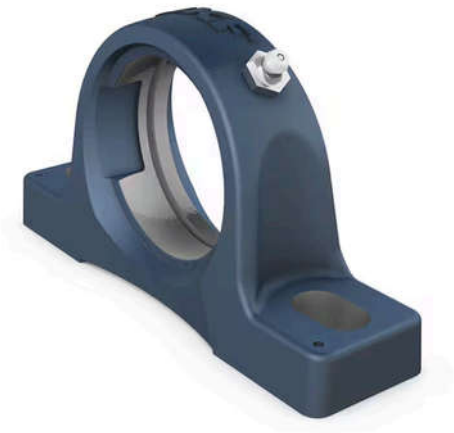


Image may differ from product. See technical specification for details.

# SYJ 520

## 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 | 180 mm |
| Centre height (pillow block) | 115 mm |
| Housing overall width | 95 mm |
| Centre distance between bolt holes | 308 mm |

## Properties

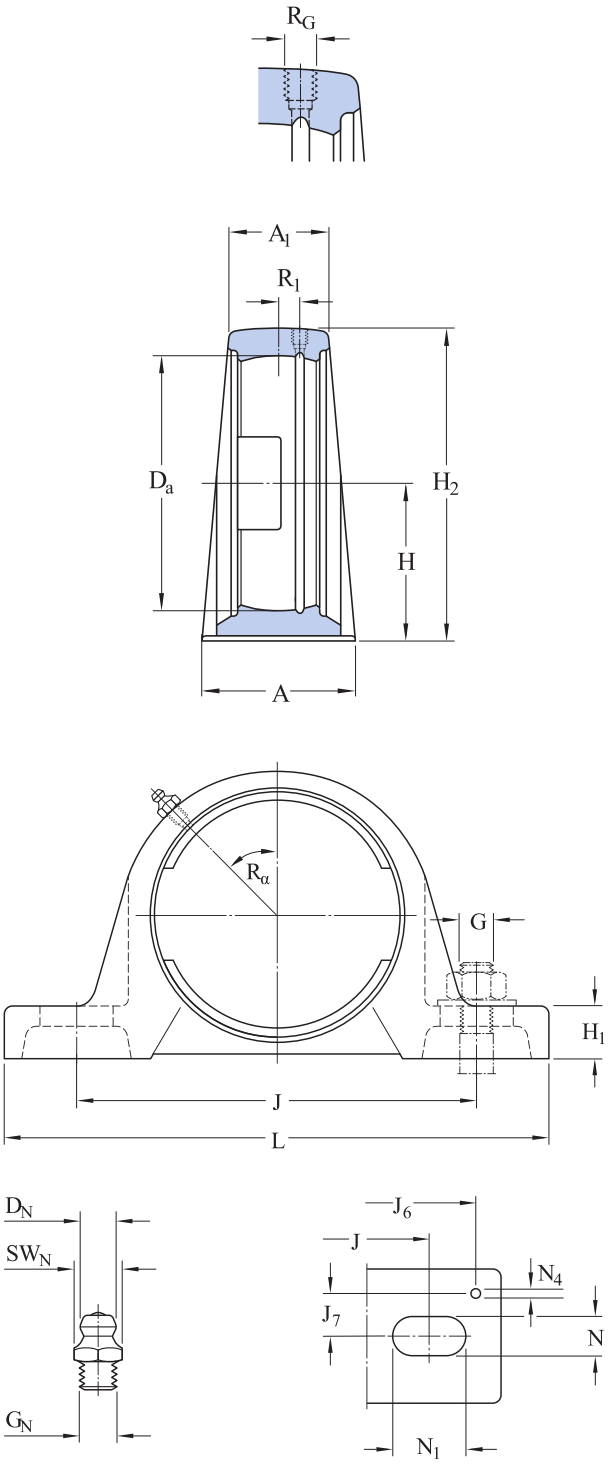
| | |
|---|---|
| Housing type | Pillow block |
| Number of bolt holes for fasteners | 2 |
| Fastening bolt hole type | Plain |
| Material, housing | Cast iron |
| Coating | Without |
| Relubrication hole | With |
| Grease fitting | With |

## Logistics

| | |
|---|---|
| Product net weight | 12.2 kg |
| eClass code | 23-05-16-02 |
| UNSPSC code | 31171536 |

## Technical specification

| | |
|---|---|
| Material | Cast iron |




## Dimensions

| | | |
|---|---|---|
| $D_a$ | 180 mm | Diameter of spherical seat |
| A | 95 mm | Base width |
| $A_1$ | 57 mm | Top width |
| H | 115 mm | Height of spherical seat centre |
| $H_1$ | 38 mm | Foot height |
| $H_2$ | 225.5 mm | Overall height |
| J | 308 mm | Distance between attachment bolts |
| J | max. 330 mm | Maximum distance between attachment bolts |
| J | min. 286 mm | Minimum distance between attachment bolts |
| L | 380 mm | Overall length |
| N | 26 mm | Width of attachment bolt hole |
| $N_1$ | 48 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

| | | |
|---|---|---|
| $J_6$ | 352 mm | Distance between dowel pins |
| $J_7$ | 33.5 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 |
| $R_1$ | 10.5 mm | Axial position of the housing thread |
| $R_\alpha$ | 45 ° | Angular position of the housing thread |

## Mounting information

| | | |
|---|---|---|
| Recommended diameter for attachment bolts, mm | G | 24 mm |
| Recommended diameter for attachment bolts, inch | G | 0.9375 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

- Pillow block units to ISO standards
- Pillow block units to North American standards
- Pillow block units to Japanese Industrial Standards (JIS)
- Pillow block units, not standardized (incl. SKF Food Line)
- Permissible misalignment
- Locating/non-locating support
- Loads
- Temperature limits
- Permissible speed
- Lubrication
- Mounting and dismounting
- Ordering information
- Designation system

### Engineering information

- Principles of ball bearing units selection and application - Download catalogue (4.9 MB)
- Principles of selecting mounted bearing solutions
- Bearing failure and how to prevent it

### Tools

- SKF Product select
- Bearing Frequency Calculator

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