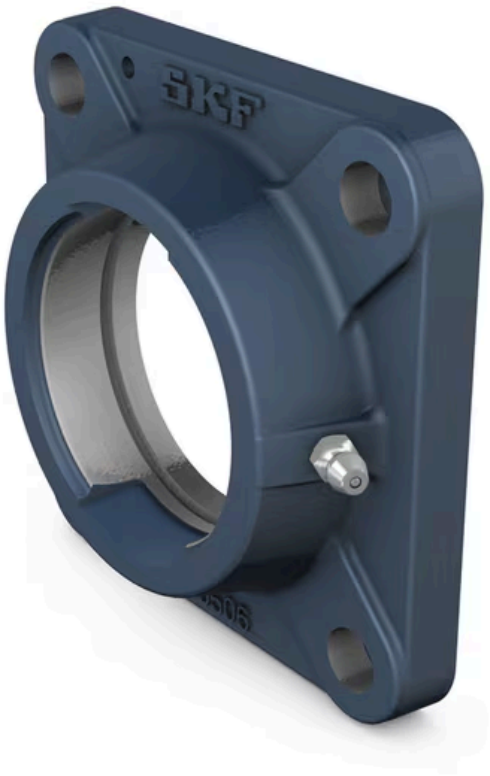


Image may differ from product. See technical specification for details.

# FYJ 513

## Square flanged housing for insert bearings, cast iron, JIS

These square flanged housings for insert bearings are complaint with Japanese Industrial Standards (JIS). They are made of grey cast iron and can be bolted with four bolts to a machine wall or frame. They have been developed for bearing arrangements that must operate reliably in difficult environments.

- Resist high levels of contamination
- Accommodate relatively heavy loads

# Overview

## Dimensions

| | |
|---|---|
| Spherical seating diameter | 120 mm |
| Housing overall width | 50 mm |
| Centre distance between bolt holes | 149 mm |

## Properties

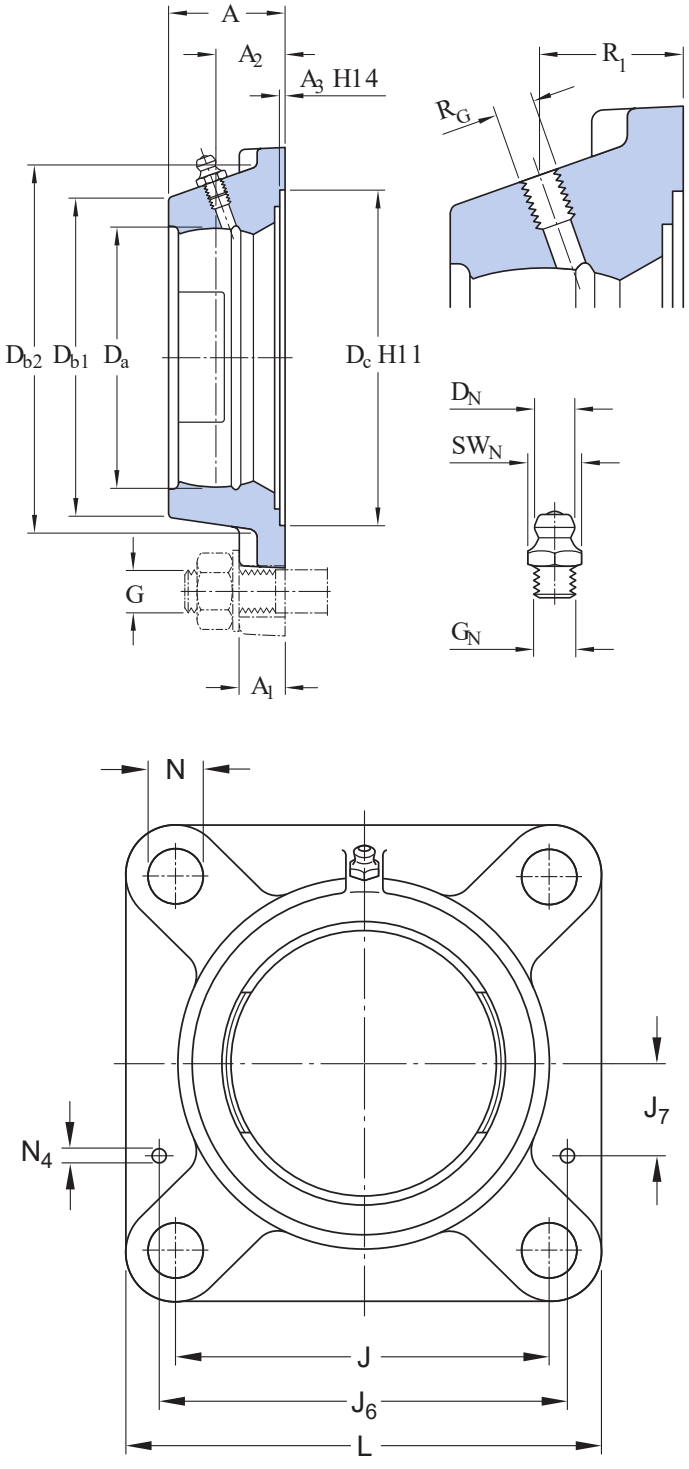
| | |
|---|---|
| Housing type | Flanged |
| Flanged housing type | Square |
| Number of bolt holes for fasteners | 4 |
| Fastening bolt hole type | Plain |
| Material, housing | Cast iron |
| Coating | Without |
| Relubrication hole | With |
| Grease fitting | With |

## Logistics

| | |
|---|---|
| Product net weight | 3.45 kg |
| eClass code | 23-05-16-02 |
| UNSPSC code | 31171536 |

## Technical specification

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




## Dimensions

| | | |
|---|---|---|
| $D_a$ | 120 mm | Diameter of spherical seat |

| | | |
|---|---|---|
| $D_{b1}$ | 150 mm | Top external diameter |
| $D_{b2}$ | 152 mm | Base external diameter |
| $D_c$ | 161.9 mm | Centring diameter |
| A | 50 mm | Overall width |
| $A_1$ | 22 mm | Flange width |
| $A_2$ | 30 mm | Axial position of spherical seat (from support surface) |
| $A_3$ | 3.2 mm | Depth of centring recess |
| J | 149 mm | Centre distance between bolt holes |
| L | 187 mm | Overall length |
| N | 19 mm | Diameter of attachment bolt hole |

### THREADED HOLE

| | | |
|---|---|---|
| $R_G$ | 1/4-28 UNF | Housing thread for grease fitting |
| $R_1$ | 29.5 mm | Axial position of the housing thread |

### 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

| | | |
|---|---|---|
| $J_6$ | 169 mm | Distance of dowel pins |
| $J_7$ | 50.5 mm | Axial offset of dowel pins |
| $N_4$ | 4 mm | Recommended diameter for dowel pins |

## Mounting information

| | | |
|---|---|---|
| Recommended diameter for attachment bolts, mm | G | 16 mm |
| Recommended diameter for attachment bolts, inch | G | 0.625 in |

## 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

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