

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

# FYTB 503 M

## Oval flanged housing for insert bearings, cast iron

These oval flanged housings for insert bearings are made of grey cast iron and can be bolted with two 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 | 40 mm |
| Housing overall width | 26 mm |
| Centre distance between bolt holes | 76.5 mm |

## Properties

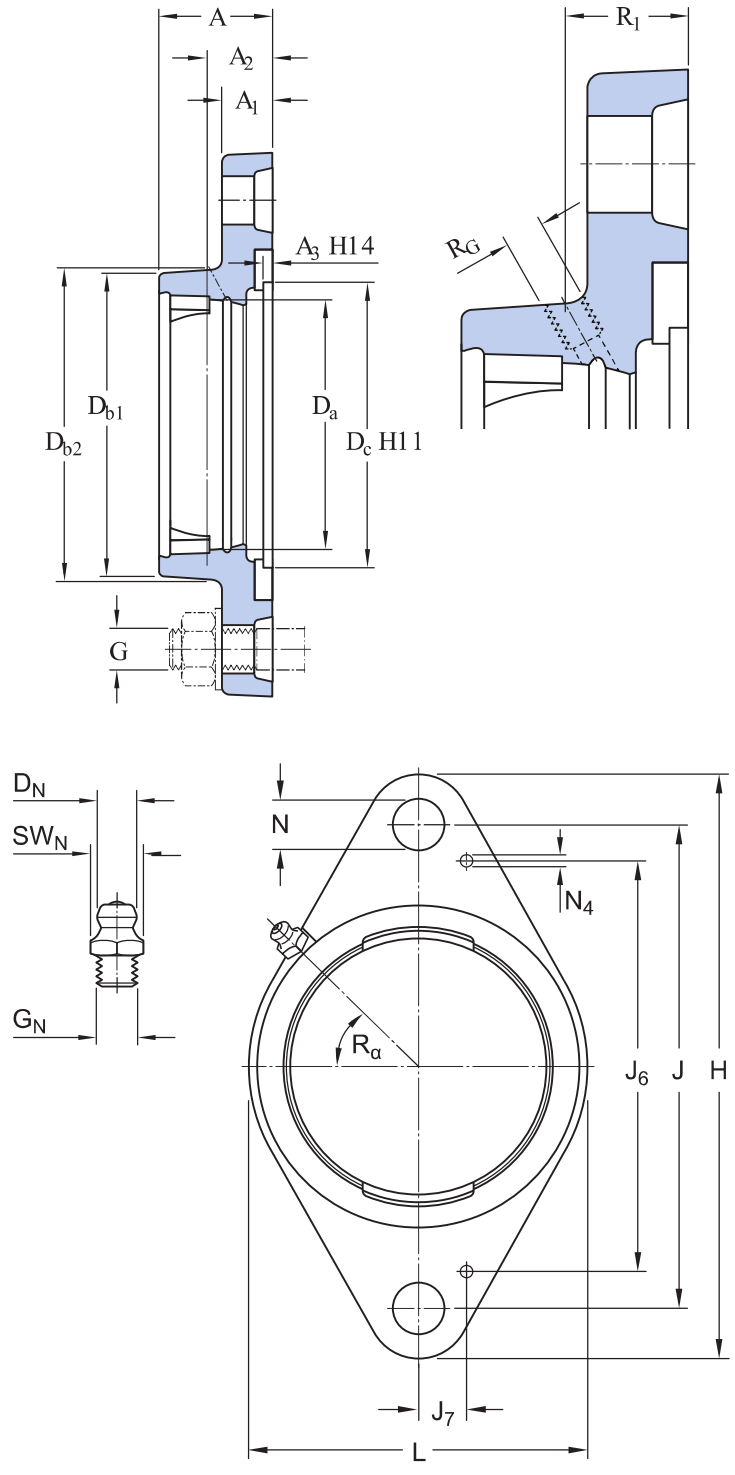
| | |
|---|---|
| Housing type | Flanged |
| Flanged housing type | Oval |
| Number of bolt holes for fasteners | 2 |
| Fastening bolt hole type | Plain |
| Material, housing | Cast iron |
| Coating | Without |
| Relubrication hole | With |
| Grease fitting | With |

## Logistics

| | |
|---|---|
| Product net weight | 0.244 kg |
| eClass code | 23-05-08-02 |
| UNSPSC code | 31171536 |

## Technical specification

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




## Dimensions

| | | |
|---|---|---|
| $D_a$ | 40 mm | Diameter of spherical seat |
| $D_{b1}$ | 50 mm | Top external diameter |
| $D_{b2}$ | 57 mm | Base external diameter |
| $D_c$ | 50.8 mm | Centering diameter |
| A | 26 mm | Overall width |
| $A_1$ | 11 mm | Flange width |
| $A_2$ | 17 mm | Axial position of spherical seat (from support surface) |
| $A_3$ | 3.2 mm | Depth of centring recess |
| H | 98.5 mm | Overall height |
| J | 76.5 mm | Centre distance between bolt holes |
| L | 57 mm | Overall length |
| N | 11.5 mm | Diameter of attachment bolt hole |

## THREADED HOLE

| | | |
|---|---|---|
| $R_G$ | 1/4-28 UNF | Housing thread for grease fitting |
| $R_1$ | 19 mm | Axial position of the housing thread |
| $R_\alpha$ | 45 ° | Angular 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

| | | |
|---|---|---|
| $J_6$ | 61.5 mm | Distance of dowel pins |
| $J_7$ | 11 mm | Axial offset of dowel pins |
| $N_4$ | 2 mm | Recommended diameter for dowel pins |

## Mounting information

| | | |
|---|---|---|
| Recommended diameter for attachment bolts, mm | G | 10 mm |
| Recommended diameter for attachment bolts, inch | G | 0.375 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

## More Information

### Product details

- Flanged units to ISO standards
- Flanged units to North American standards
- Flanged units to Japanese Industrial Standards (JIS)
- Flanged units, not standardized (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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