# FYTB 12 TF

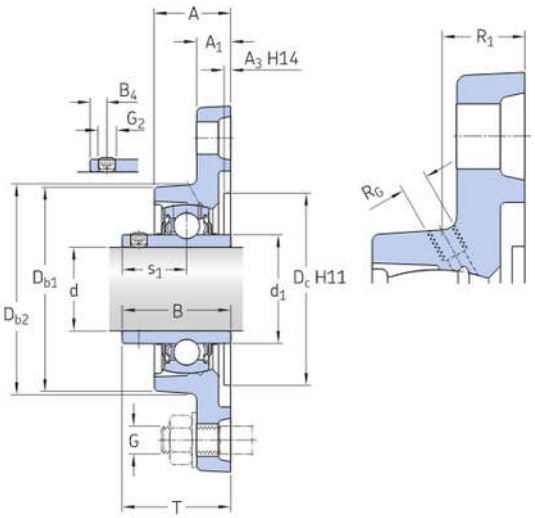


## Oval flanged ball bearing units

The values depend on the included bearing:
table 1, table 2, table 3,
table 4

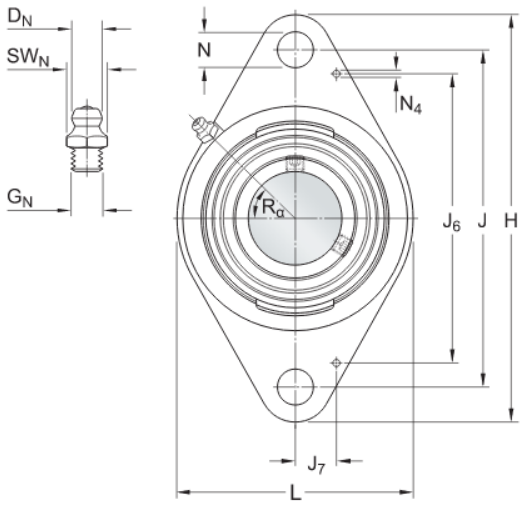
## Technical specification

| | |
|---|---|
| Compliance with standard | ISO |
| Purpose specific | For material handling applications |
| Housing material | Cast iron |
| Sealing solution | Standard seals with additional flingers |




### DIMENSIONS

| | | |
|---|---|---|
| d | 12 mm | Bore diameter |
| $d_1$ | ≈ 24.2 mm | Outer diameter inner ring |
| A | 26 mm | Overall width |
| $A_1$ | 11 mm | Flange width |
| $A_3$ | 3.2 mm | Depth of centring recess |
| B | 27.4 mm | Width of inner ring |
| B4 | 4 mm | Distance from locking device side face to thread centre |
| $D_{b1}$ | 50 mm | Top external diameter |
| $D_{b2}$ | 57 mm | Base external diameter |
| $D_c$ | 50.8 mm | Diameter of housing centering recess |
| H | 98.5 mm | Overall height |
| J | 76.5 mm | Distance between attachment bolts |




| | | |
|---|---|---|
| L | 57 mm | Overall length |
| N | 11.5 mm | Diameter of attachment bolt hole |
| s1 | 15.9 mm | Distance from locking device side face to raceway centre |
| T | 32.9 mm | Overall unit width |

## THREADED HOLE

| | | |
|---|---|---|
| R | 1/4-28 UNF | Housing thread for grease fitting |
| R | 19 mm | Axial position of the housing thread |
| R | 45 ° | Angular position of the housing thread |

## GREASE FITTING

| | | |
|---|---|---|
| DN | 6.5 mm | Diameter of head sphere of grease fitting |
| $SW_N$ | 7 mm | Hexagonal key size for the grease fitting |
| GN | 1/4-28 SAE-LT | Thread of the grease fitting |

## DOWEL PINS

| | | |
|---|---|---|
| $J_ℓ$ | 61.5 mm | Distance of dowel pins |
| $J_;$ | 11 mm | Axial offset of dowel pins |
| N | 2 mm | Recommended diameter for dowel pins |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 9.56 kN |
| Basic static load rating | $C_0$ | 4.75 kN |
| Fatigue load limit | $P_u$ | 0.2 kN |
| Limiting speed | | 9 500 r/min |
| with shaft tolerance h6 | | |

## MASS

| | | |
|---|---|---|
| Mass bearing unit | | 0.36 kg |

## MOUNTING INFORMATION

| | | |
|---|---|---|
| Set screw | $G_2$ | M6x0.75 |
| Hexagonal key size for set screw | | 3 mm |
| Recommended tightening torque for set screw | | 4 Nm |
| Recommended diameter for attachment bolts, mm | G | 10 mm |
| Recommended diameter for attachment bolts, inch | G | 0.375 in |

## INCLUDED PRODUCTS

| | |
|---|---|
| Housing | FYTB 503 M |
| Bearing | YAR 203/12-2F |

## 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 flanged
- 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

- Bearing Select
- Engineering Calculator
- Rolling bearings mounting and dismounting instructions

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