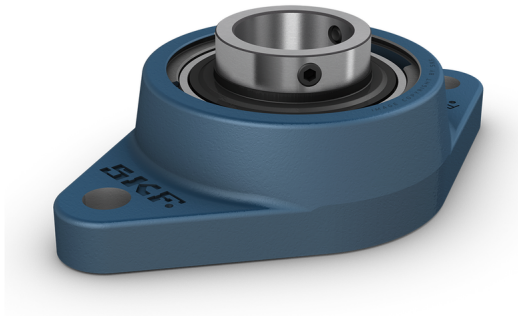


FYTB 20 TR

Oval flanged ball bearing units

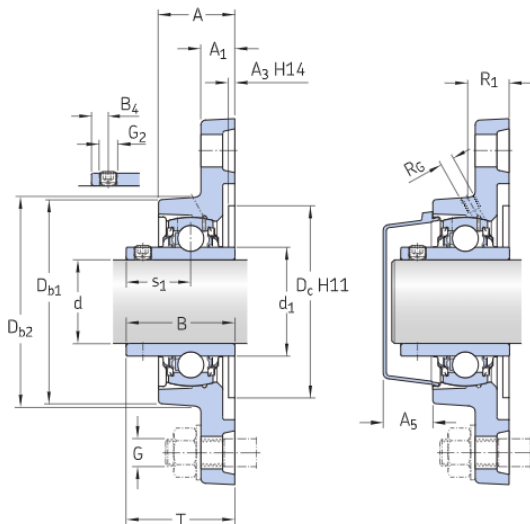


The values depend on the included bearing:

table 1, table 2, table 3,
table 4

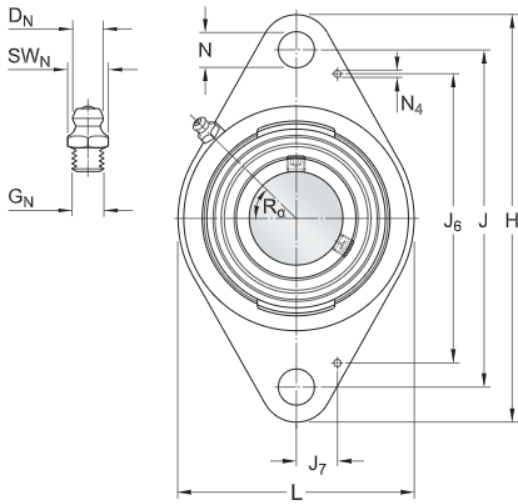
Technical specification

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



DIMENSIONS

| | | |
|-----------------|-----------|---|
| d | 20 mm | Bore diameter |
| d ₁ | ≈ 28.2 mm | Outer diameter inner ring |
| A | 29.5 mm | Overall width |
| A ₁ | 11 mm | Flange width |
| A ₃ | 3.2 mm | Depth of centring recess |
| A ₅ | 20.5 mm | Width including end cover |
| B | 31 mm | Width of inner ring |
| B ₄ | 4.5 mm | Distance from locking device side face to thread centre |
| D _{b1} | 58 mm | Top external diameter |
| D _{b2} | 60.5 mm | Base external diameter |



| | | |
|-------|---------|--|
| D_c | 50.8 mm | Diameter of housing centering recess |
| H | 112 mm | Overall height |
| J | 90 mm | Distance between attachment bolts |
| L | 60.5 mm | Overall length |
| N | 11.5 mm | Diameter of attachment bolt hole |
| s_1 | 18.3 mm | Distance from locking device side face to raceway centre |
| T | 37.3 mm | Overall unit width |

THREADED HOLE

| | | |
|-------|------------|--|
| R_c | 1/4-28 UNF | Housing thread for grease fitting |
| R_1 | 20 mm | Axial position of the housing thread |
| R_0 | 45 ° | Angular position of the housing thread |

GREASE FITTING

| | | |
|-------|---------------|---|
| D_f | 6.5 mm | Diameter of head sphere of grease fitting |
| S_k | 7 mm | Hexagonal key size for the grease fitting |
| G_f | 1/4-28 SAE-LT | Thread of the grease fitting |

DOWEL PINS

| | | |
|-------|---------|-------------------------------------|
| J_6 | 74 mm | Distance of dowel pins |
| J_7 | 11.5 mm | Axial offset of dowel pins |
| N_2 | 2 mm | Recommended diameter for dowel pins |

CALCULATION DATA

| | | |
|---------------------------|-------|---------|
| Basic dynamic load rating | C | 12.7 kN |
| Basic static load rating | C_0 | 6.55 kN |
| Fatigue load limit | P_u | 0.28 kN |

| | |
|-------------------------|-------------|
| Limiting speed | 5 000 r/min |
| with shaft tolerance h6 | |

MASS

| | |
|-------------------|---------|
| Mass bearing unit | 0.45 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 504 M |
| Bearing | YAR 204-2RF |

ASSOCIATED PRODUCTS

| | |
|-----------|---------|
| End cover | ECY 204 |
|-----------|---------|

More information

| Product details | Engineering information | Tools |
|--|--|--|
| Flanged units to ISO standards | Principles of ball bearing units selection and application - Download catalogue (4.9 MB) | Bearing Select |
| Flanged units to North American standards | Principles of selecting mounted bearing solutions | Engineering Calculator |
| Flanged units to Japanese Industrial Standards (JIS) | Bearing failure and how to prevent it | Rolling bearings mounting and dismounting instructions |
| 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 | | |

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