



# FYK 25 TFSquare flanged ball bearing unit with set screw locking and extended inner ring, composite housing, ISO

## Square flanged ball bearing unit with set screw locking and extended inner ring, composite housing, ISO

These square flanged ball bearing units are compliant with ISO standards. The unit consists of an insert bearing, with an extended inner ring and set screw locking, and is suitable for applications where the direction of rotation is constant or alternating. The bearing is mounted in a composite housing, which can be bolted to a machine wall or frame. Ball bearing units can accommodate moderate initial misalignment, but normally do not permit axial displacement.

- Chemical resistant
- Pre-lubricated for life
- Lightweight
- Strong

## Overview

## Dimensions

|                                    |         |
|------------------------------------|---------|
| Shaft diameter                     | 25 mm   |
| Housing overall width              | 31 mm   |
| Centre distance between bolt holes | 70 mm   |
| Bearing width, total               | 34.1 mm |

## Performance

|                           |  |
|---------------------------|--|
| Basic dynamic load rating | 14 kN                                  |
| Basic static load rating  | 7.8 kN                                 |
| Limiting speed            | 7 000 r/min                            |
| Note                      | Limiting speed with shaft tolerance h6 |

## Properties

|                                    |             |
|------------------------------------|-------------|
| Housing type                       | Flanged     |
| Flanged housing type               | Square      |
| Number of bolt holes for fasteners | 4           |
| Fastening bolt hole type           | Plain       |
| Retaining feature, inner ring      | Set screws  |
| Bore type                          | Cylindrical |
| Rubber seating ring                | Without     |

|                    |                                |
|--------------------|--------------------------------|
| Material, housing  | Composite                      |
| Material, bearing  | Bearing steel                  |
| Coating            | Without                        |
| Sealing, bearing   | Seal and flinger on both sides |
| Sealing type       | Contact, standard              |
| Sealing, unit      | Optional end cover             |
| Lubricant          | Grease                         |
| Relubrication hole | Without                        |
| Grease fitting     | Without                        |

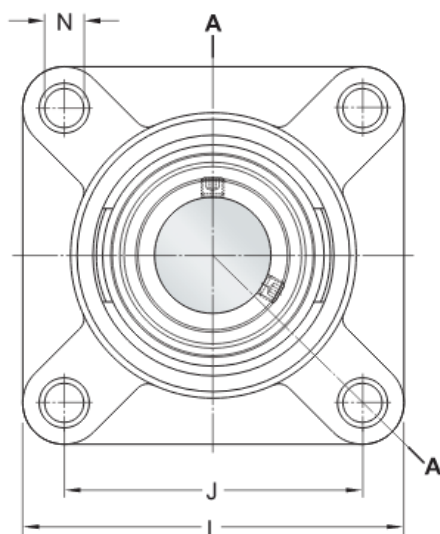
# Technical Specification

|                          |                                    |
|--------------------------|------------------------------------|
| Compliance with standard | ISO                                |
| Purpose specific         | For material handling applications |
| Material, housing        | Composite                          |
| Sealing, bearing         | Seal and flinger on both sides     |
| Sealing type, bearing    | Contact, standard                  |
| Sealing, unit            | Optional end cover                 |
| Coating                  | Without                            |



## Dimensions

|       |                    |  |
|-------|--------------------|--|
| d     | 25 mm              | Bore diameter  |
| $d_1$ | $\approx 33.74$ mm | Outer diameter of inner ring                             |
| A     | 31 mm              | Overall width  |
| $A_1$ | 15 mm              | Flange width   |
| $A_3$ | 3.2 mm             | Depth of centring recess                                 |
| $A_5$ | 20 mm              | Standout of end cover                                    |
| B     | 34.1 mm            | Width of inner ring                                      |
| $B_1$ | 34.1 mm            | Overall bearing width                                    |
| $B_4$ | 5 mm               | Distance from locking device side face to thread centre  |
| $D_b$ | 65 mm              | Top external diameter                                    |
| $D_c$ | 74.6 mm            | Diameter of housing centering recess                     |
| J     | 70 mm              | Distance between attachment bolts                        |
| L     | 95 mm              | Overall length   |
| N     | 12.3 mm            | Diameter of attachment bolt hole                         |
| $s_1$ | 19.8 mm            | Distance from locking device side face to raceway centre |



T 38.8  
mm

Overall unit width

## Calculation data

|  |                |             |
|--|----------------|-------------|
| Basic dynamic load rating              | C              | 14 kN       |
| Basic static load rating               | C <sub>0</sub> | 7.8 kN      |
| Fatigue load limit                     | P <sub>u</sub> | 0.335 kN    |
| Limiting speed                         |                | 7 000 r/min |
| Limiting speed with shaft tolerance h6 |                |             |

## Mass

|                   |         |
|-------------------|---------|
| Mass bearing unit | 0.31 kg |
|-------------------|---------|

## Mounting information

|   |                |          |
|---|----------------|----------|
| Set screw                                       | G <sub>2</sub> | M6x0.75  |
| Hexagonal key size for set screw                |                | 3 mm     |
| Recommended tightening torque for set screw     |                | 4 N·m    |
| Recommended diameter for attachment bolts, mm   | G              | 10 mm    |
| Recommended diameter for attachment bolts, inch | G              | 0.375 in |

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