

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

# YET 207-104

## Insert bearing with an eccentric locking collar and narrow inner ring

Insert bearings are based on sealed deep groove ball bearings. This variant is intended for use in applications where the direction of rotation is constant. It has a narrow inner ring extended on one side, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

- Designed for rotation in one direction
- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels

# Overview

## Dimensions

| | |
|---|---|
| Shaft diameter | 31.75 mm |
| Bore diameter | 31.75 mm |
| Outside diameter | 72 mm |
| Width, total | 38.9 mm |
| Width, inner ring | 25.4 mm |
| Width, outer ring | 19 mm |

## Performance

| | |
|---|---|
| Basic dynamic load rating | 25.5 kN |
| Basic static load rating | 15.3 kN |
| Limiting speed | 5 300 r/min |
| Note | Limiting speed with shaft tolerance h6 |

## Properties

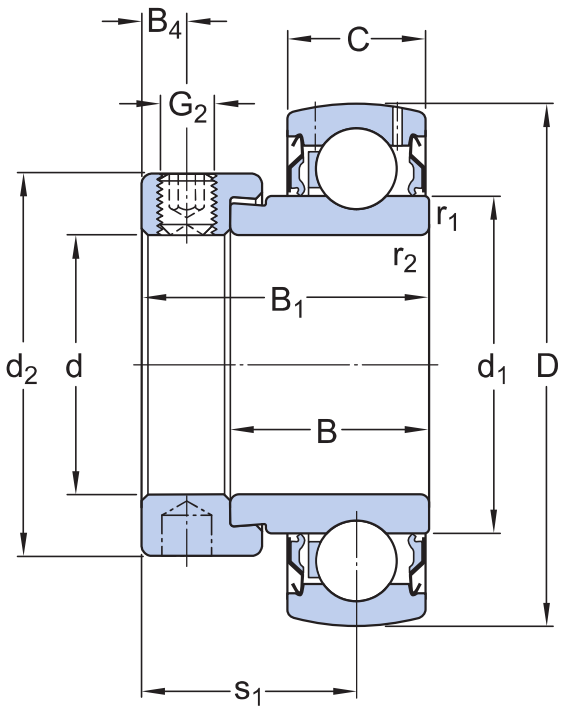
| | |
|---|---|
| Retaining feature, inner ring | Eccentric collar |
| Bore type | Cylindrical |
| Rolling elements | Balls |
| Outer ring type | Spherical |
| Inner ring extension | On one side |
| Cage | Non-metallic |
| Rubber seating ring | Without |
| Material, bearing | Bearing steel |
| Coating | Without |
| Sealing | Seal on both sides |
| Sealing type | Contact, standard |
| Lubricant | Grease |
| Relubrication feature | With |

## Logistics

| | |
|---|---|
| Product net weight | 0.495 kg |
| eClass code | 23-05-08-02 |

| | |
|---|---|
| UNSPSC code | 31171536 |

# Technical specification




## Dimensions

| | | |
|---|---|---|
| d | 31.75 mm | Bore diameter |
| D | 72 mm | Outside diameter |
| $B_1$ | 38.9 mm | Overall bearing width |
| B | 25.4 mm | Width of inner ring |
| C | 19 mm | Width of outer ring |
| $d_1$ | ≈ 46.1 mm | Outside diameter of inner ring |
| $d_2$ | 51.1 mm | Outside diameter of locking collar |
| $B_4$ | 6.75 mm | Distance from side face to thread centre |
| $r_{1,2}$ | min. 1 mm | Chamfer dimension of inner ring |
| $s_1$ | 29.4 mm | Distance from locking device side face to raceway centre |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 25.5 kN |
| Basic static load rating | $C_0$ | 15.3 kN |
| Fatigue load limit | $P_u$ | 0.655 kN |

| | | |
|---|---|---|
| Limiting speed | | 5 300 r/min |
| | | Limiting speed with shaft tolerance h6 |
| Calculation factor | $f_0$ | 14 |

## Mounting information

| | | |
|---|---|---|
| Set screw | $G_2$ | 3/8-24 UNF |
| Hexagonal key size for set screw | N | 4.763 mm |
| Recommended tightening torque for set screw | | 16.5 N·m |

## Associated products

| | |
|---|---|
| Rubber seating ring | RIS 207 A |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1, table 2
- Radial internal clearance: Standard inner ring, Other bearings

## BEARING INTERFACES

- Shaft tolerances

# Compatible products

## Recommended product

| | |
|---|---|
| Rubber seating ring for insert bearing | RIS 207 A |

## More Information

### Product details

- Designs and variants
- Lubrication
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Mounting and dismounting
- Designation system

### Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

### Tools

- SKF Product select
- Bearing Frequency Calculator
- SimPro Quick
- Heater selection tool

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