

# YAR 204-2RFGR/HVInsert bearing with set screw locking and extended inner ring

## Insert bearing with set screw locking and extended inner ring

Insert bearings are based on sealed deep groove ball bearings. This variant is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening two (set) screws on the inner ring, making it easy to mount.

- Designed for a constant and alternating rotation
- Quick and easy to mount onto the shaft
- Reduce noise and vibration levels

## Overview

### Dimensions

| | |
|---|---|
| Bore diameter | 20 mm |
| Outside diameter | 47 mm |
| Width, total | 31 mm |
| Width, inner ring | 31 mm |
| Width, outer ring | 14 mm |

### Performance

| | |
|---|---|
| Basic dynamic load rating | 10.8 kN |
| Basic static load rating | 6.55 kN |
| Limiting speed | 5 000 r/min |
| Note | Limiting speed with shaft tolerance h6 |

### Properties

| | |
|---|---|
| Retaining feature, inner ring | Set screws |
| Bore type | Cylindrical |
| Rolling elements | Balls |
| Outer ring type | Spherical |
| Inner ring extension | On both sides |
| Cage | Non-metallic |
| Rubber seating ring | Without |
| Material, bearing | Stainless steel |
| Coating | Without |
| Sealing | Seal and flinger on both sides |

| | |
|---|---|
| Sealing type | Contact, multiple |
| Lubricant | Grease |
| Relubrication feature | With |

# Technical Specification




## Dimensions

| | | |
|---|---|---|
| d | 20 mm | Bore diameter |
| D | 47 mm | Outside diameter |
| B | 31 mm | Width of inner ring |
| C | 14 mm | Width of outer ring |
| $d_1$ | ≈ 28.2 mm | Outside diameter of inner ring |
| $B_4$ | 4.5 mm | Distance face to thread centre |
| $r_{1,2}$ | min. 0.6 mm | Chamfer dimension of inner ring |
| $s_1$ | 18.3 mm | Distance from locking device side face to raceway centre |

## Calculation data

| | | |
|---|---|---|
| Basic dynamic load rating | C | 10.8 kN |
| Basic static load rating | $C_0$ | 6.55 kN |
| Fatigue load limit | $P_u$ | 0.28 kN |
| Limiting speed | | 5 000 r/min |
| | | Limiting speed with shaft tolerance h6 |
| Calculation factor | $f_0$ | 13 |

## Mass

| | |
|---|---|
| Mass | 0.15 kg |

## Mounting information

| | | |
|---|---|---|
| Set screw | $G_2$ | M6x0.75 |
| Hexagonal key size for set screw | N | 3 mm |
| Recommended tightening torque for set screw | | 4 N·m |

## Associated products

| | |
|---|---|
| Rubber seating ring | RIS 204 |

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