

YEL 205-2RF/VL065 Insert bearing with an eccentric locking collar and extended inner ring



Insert bearing with an eccentric locking collar and extended 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 an inner ring extended on both sides, with an eccentric locking collar, enabling quick and easy mounting onto the shaft.

- Quick and easy to mount onto the shaft
- Long service life
- Reduce noise and vibration levels

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width, total	44.4 mm
Width, inner ring	34.9 mm
Width, outer ring	15 mm

Performance

Basic dynamic load rating	14 kN
Basic static load rating	7.8 kN
Limiting speed	4 300 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 both sides
Cage	Non-metallic
Rubber seating ring	Without
Material, bearing	Bearing steel

Coating	Zinc-coated inner ring bore and side faces
Sealing	Seal and flinger on both sides
Sealing type	Contact, multiple
Lubricant	Grease
Relubrication feature	With mm

Technical Specification



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B ₁	44.4 mm	Overall bearing width
B	34.9 mm	Width of inner ring
C	15 mm	Width of outer ring
d ₁	≈ 33.74 mm	Outside diameter of inner ring
d ₂	37.4 mm	Outside diameter of locking collar
B ₄	4.75 mm	Distance from side face to thread centre
r _{1,2}	min. 0.6 mm	Chamfer dimension of inner ring
s ₁	26.9 mm	Distance from locking device side face to raceway centre

Calculation data

Basic dynamic load rating	C	14 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.335 kN
Limiting speed		4 300 r/min
		Limiting speed with shaft tolerance h6
Calculation factor	f ₀	14

Mass

Mass	0.25 kg
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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 205
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