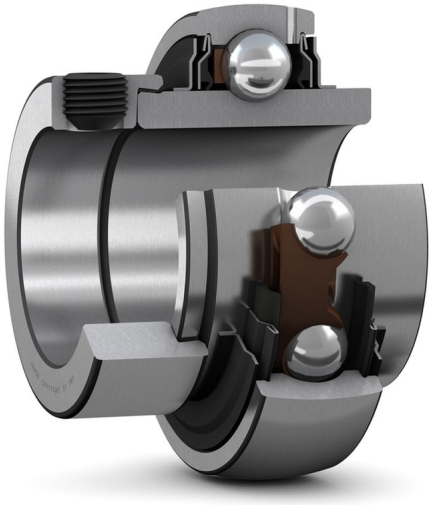

YEL 207-107-2FInsert bearing with an eccentric locking collar and extended inner ring

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	36.513 mm
Outside diameter	72 mm
Width, total	51.1 mm
Width, inner ring	37.6 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 both sides
Cage	Non-metallic
Rubber seating ring	Without
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal and flinger on both sides

Sealing type	Contact, standard
Lubricant	Grease
Relubrication feature	With

Technical Specification



Dimensions

d	36.513 mm	Bore diameter
D	72 mm	Outside diameter
B_1	51.1 mm	Overall bearing width
B	37.6 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	32.3 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

Mass

Mass	0.51 kg

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

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