



RNU 306 Single row cylindrical roller bearing, NU design, without inner ring

Single row cylindrical roller bearing, NU design, without inner ring

Single row cylindrical roller bearings of the NU design without an inner ring consist of an outer ring with a roller and cage assembly. They are typically used in applications where hardened and ground raceways are provided on the shaft. Without the inner ring, a larger shaft diameter can be used to provide a stronger, stiffer shaft. The bearings can accommodate axial displacement in both directions, limited only by the width of the raceway on the shaft.

- High radial load carrying capacity
- Enable a stronger, stiffer shaft
- Low friction
- Long service life
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter	42 mm
Outside diameter	72 mm
Width	19 mm

Performance

Basic dynamic load rating	36.9 kN
Basic static load rating	33.5 kN
Reference speed	10 000 r/min
Limiting speed	12 000 r/min

Properties

Bearing part	Bearing without inner ring
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Number of flanges, outer ring	2
Loose flange	None
Tolerance class	Normal
Coating	Without

Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

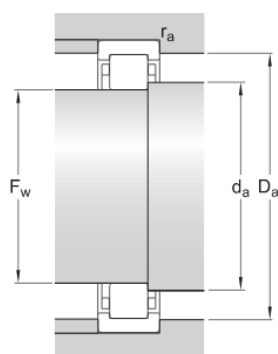


Dimensions

F_w	42 mm	Diameter under rollers
D	72 mm	Outside diameter
C	19 mm	Width
D_1	≈ 56.98 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.1 mm	Corner radius

Abutment dimensions

d_a	max. 45.9 mm	Abutment diameter shaft
D_a	max. 65.5 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	36.9 kN
Basic static load rating	C_0	33.5 kN
Fatigue load limit	P_u	4.25 kN
Reference speed		10 000 r/min
Limiting speed		12 000 r/min
Calculation factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing

0.26 kg

Terms and conditions

By accessing and using this website / app owned and published by AB SKF (publ.) (556007-3495 · Gothenburg) ("SKF"), you agree to the following terms and conditions:

Warranty Disclaimer and Limitation of Liability

Although every care has been taken to assure the accuracy of the information on this website / app, SKF provides this information "AS IS" and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. You acknowledge that your use of this website / app is at your sole risk, that you assume full responsibility for all costs associated with use of this website / app, and that SKF shall not be liable for any direct, incidental, consequential, or indirect damages of any kind arising out of your access to, or use of the information or software made available on this website / app. Any warranties and representations in this website / app for SKF products or services that you purchase or use will be subject to the agreed upon terms and conditions in the contract for such product or service. Further, for non-SKF websites / apps that are referenced in our website / app or where a hyperlink appears, SKF makes no warranties concerning the accuracy or reliability of the information in these websites / apps and assumes no responsibility for material created or published by third parties contained therein. In addition, SKF does not warrant that this website / app or these other linked websites / apps are free from viruses or other harmful elements.

Third Party Services

When viewing YouTube content via the SKF website(s) (i.e. using YouTube API Services), you agree to be bound by the YouTube Terms of Service.

Copyright

Copyright in this website / app copyright of the information and software made available on this website / app rest with SKF or its licensors. All rights are reserved. All licensed material will reference the licensor that has granted SKF the right to use the material. The information and software made available on this website / app may not be reproduced, duplicated, copied, transferred, distributed, stored, modified, downloaded or otherwise exploited for any commercial use without the prior written approval of SKF. However, it may be reproduced, stored and downloaded for use by individuals without prior written approval of SKF. Under no circumstances may this information or software be supplied to third parties.

This website /app includes certain images used under license from Shutterstock, Inc.

Trademarks and Patents

All trademarks, brand names, and corporate logos displayed on the website / app are the property of SKF or its licensors, and may not be used in any way without prior written approval by SKF. All licensed trademarks published on this website / app reference the licensor that has granted SKF the right to use the trademark. Access to this website / app does not grant to the user any license under any patents owned by or licensed to SKF.

Changes

SKF reserves the right to make changes or additions to this website / app at any time.