

ROLLWAY®



# FULL COMPLEMENT CYLINDRICAL ROLLER BEARINGS

ROLLWAY® BEARINGS INFO

**REGAL**®

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## WHY?

Full complement cylindrical roller bearings are capable of carrying higher radial loads than bearings that utilize a cage and roller design.

## PRODUCT FEATURES:

Full complement construction, no cage included.

Largest possible amount of rolling elements, so very high radial load carrying capacity, high rigidity and suitable for particularly compact designs.

The design of the outer ring facilitates a great amount of internal axial float capacity.

## APPLICATIONS:

- General machine industry.
- Gear drives.
- Rolling mills.
- Crop shears.

## PRIMARY TYPES:

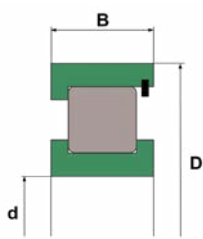
- Non locating bearings: only radial load carrying capacity.
- Semi locating bearings: besides a high radial load carrying capacity, also a small axial load carrying capacity in one direction. This enables the bearing to locate a shaft unidirectional.
- Locating bearings: in addition to high radial load capacity also capable of carrying small axial load in both directions.

## DIMENSIONS:

	INTER-CHANGE CODE	TYPE	d (BORE DIAMETER) mm		D (OUTER DIAMETER) mm	
			MIN	MAX	MIN	MAX
<b>NCF</b>	SL 18	semi locating	20	670	42	820
<b>NJG</b>	SL 19	semi locating	25	110	62	240
<b>NNF</b>	SL 04	locating	20	300	42	460
<b>NNC</b>	SL 01	locating	60	380	85	480
<b>NNCF</b>	SL 18 50	semi locating	20	380	42	560
<b>NNCL</b>	SL 02	non locating	60	380	85	520

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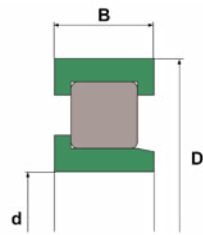
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## SINGLE ROW: NCF

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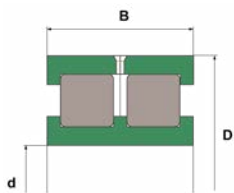
- Single inner ring with two fixed flanges.
- Single outer ring with one fixed flange.
- On the flangeless side of the outer ring is a retaining ring insert which keeps the bearing components together.
- The retaining ring is for handling purposes only; it cannot be exposed to axial load.



## SINGLE ROW: NJG

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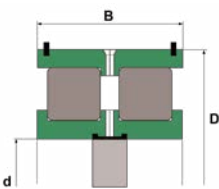
- Inner ring with one flange and one free side.
- Single outer ring with two fixed flanges.
- Special: Mainly for applications with very high radial load at low rotational speed.
- Standard: self-retaining set of rollers so the rollers cannot fall out even if the inner ring is removed, which simplifies the assembly.



## DOUBLE ROW: NNC

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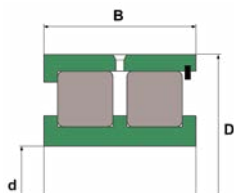
- Inner ring with 3 fixed flanges.
- Two outer rings with external flange.
- Oil groove and holes in outer ring.



## DOUBLE ROW: NNF

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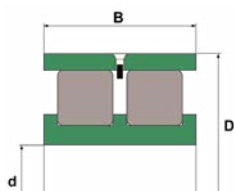
- 2 identical inner rings held together with metallic spring.
- Single outer ring with a fixed central flange.
- Oil groove and holes in both rings.
- PP: sealed on both sides and lubricated.
- 2NR: 2 external snap rings.



## DOUBLE ROW: NNCF

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- Inner ring with 3 fixed flanges.
- Single outer ring with one fixed flange.
- Outer ring located with one retaining ring which keeps all bearing components together.
- Oil groove and holes in outer ring.
- The retaining ring is for handling purposes only; it cannot be exposed to axial load.



## DOUBLE ROW: NNCL

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- Inner ring with 3 fixed flanges.
- Outer ring located with a central retaining ring to keep all bearing components together.
- Oil groove and holes in outer ring.
- The retaining ring is for handling purposes only; it cannot be exposed to axial load.

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## APPLICATION INFO: ROPE SHEAVES

A rope sheave is a pulley with a grooved wheel that holds a rope. Spinning inside the frame of the sheave, the grooved wheel allows the rope to move freely, minimizing wear and abrasion. Application fields of rope sheaves are redirecting cables or lifting loads; they are often used in vessel cranes as shown in the picture.

## WHAT MAKES THESE BEARINGS SUITED FOR ROPE SHEAVES:

- very high radial load carrying capacity
- high rigidity
- features which promote relubrication
- integral sealing option
- suitable for particularly compact designs



Full complement cylindrical roller bearings are located here in the vessel crane.

## ROLLWAY®

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### APPLICATION CONSIDERATIONS

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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