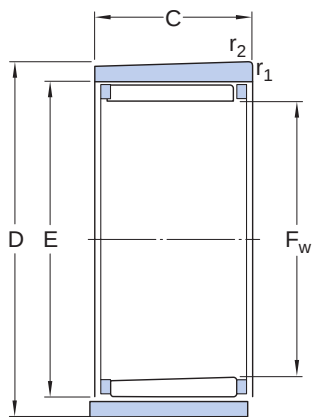


RNAO 22X35X16

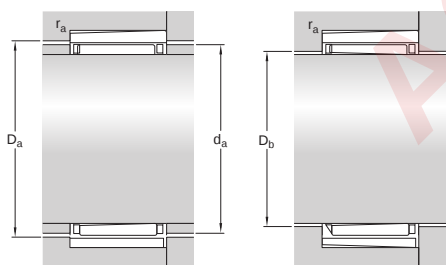
Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. Bearings without flanges on the outer ring are separable, i.e. the outer ring and the needle roller and cage assembly can be mounted separately.



- High radial load carrying capacity
- High stiffness
- Low cross-sectional height
- Accommodate axial displacement in both directions



| Dimensions       |             |                              |
|------------------|-------------|------------------------------|
| F <sub>w</sub>   | 22 mm       | Diameter under rollers       |
| D                | 35 mm       | Outside diameter             |
| C                | 16 mm       | Width                        |
| E                | 29 mm       | Raceway diameter outer ring  |
| r <sub>1,2</sub> | min. 0.3 mm | Chamfer dimension outer ring |



| Abutment dimensions |             |                                                                          |
|---------------------|-------------|--------------------------------------------------------------------------|
| d <sub>a</sub>      | 28.4 mm     | Smallest permissible abutment diameter shaft, bearings without flanges   |
| D <sub>a</sub>      | 29.5 mm     | Diameter of housing abutment                                             |
| D <sub>b</sub>      | 22.4 mm     | Smallest permissible abutment diameter housing, bearings without flanges |
| r <sub>a</sub>      | max. 0.3 mm | Fillet radius                                                            |

Calculation data

|                           |                |              |
|---------------------------|----------------|--------------|
| Basic dynamic load rating | C              | 19.4 kN      |
| Basic static load rating  | C <sub>0</sub> | 25.5 kN      |
| Fatigue load limit        | P <sub>u</sub> | 3.05 kN      |
| Reference speed           |                | 17 000 r/min |
| Limiting speed            |                | 19 000 r/min |

Associated seals

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, ISO - F6 (F<sub>w</sub>)
- Radial internal clearance: table

DESIGN CONSIDERATIONS

- Housing tolerances: table
- Shaft tolerances: Operating clearance