

BS2-2215-2RS/GFP9VA944

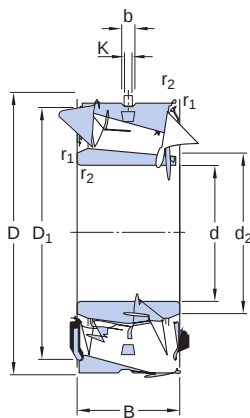
NR Food line spherical roller bearings are compliant with food safety regulations. Designed with food grade seals and grease, they enhance food safety, increase reliability and support sustainable development. Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature.



- Compliant with food safety regulations
- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



| Dimensions        |                 |                                                |
|-------------------|-----------------|------------------------------------------------|
| d                 | 75 mm           | Bore diameter                                  |
| t <sub>Δdmp</sub> | -0.015 – 0.0 mm | Deviation limits of mid-range bore diameter    |
| D                 | 130 mm          | Outside diameter                               |
| t <sub>ΔDmp</sub> | -0.018 – 0.0 mm | Deviation limits of mid-range outside diameter |
| B                 | 38 mm           | Width                                          |
| t <sub>ΔBs</sub>  | -0.06 – 0.0 mm  | Deviation limits of ring width                 |
| d <sub>2</sub>    | ≈ 84.5 mm       | Shoulder diameter of inner ring                |
| D <sub>1</sub>    | ≈ 120 mm        | Shoulder/recess diameter of outer ring         |
| b                 | 6 mm            | Width of lubrication groove                    |
| K                 | 3 mm            | Diameter of lubrication hole                   |
| r <sub>1,2</sub>  | min. 1.5 mm     | Chamfer dimension                              |
| Normal            |                 | ISO tolerance class for dimensions             |



### Abutment dimensions

|       |              |                              |
|-------|--------------|------------------------------|
| $d_a$ | min. 84 mm   | Diameter of shaft abutment   |
| $d_a$ | max. 84.5 mm | Diameter of shaft abutment   |
| $D_a$ | max. 121 mm  | Diameter of housing abutment |
| $r_a$ | max. 1.5 mm  | Radius of fillet             |

### Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| AGA performance class     |       | AGA Explorer |
| Basic dynamic load rating | C     | 217 kN       |
| Basic static load rating  | $C_0$ | 240 kN       |
| Fatigue load limit        | $P_u$ | 26.5 kN      |
| Limiting speed            |       | 290 r/min    |
| Limiting value            | e     | 0.22         |
| Calculation factor        | $Y_1$ | 3            |
| Calculation factor        | $Y_2$ | 4.6          |
| Calculation factor        | $Y_0$ | 2.8          |

### Tolerances of run-out

|                                                            |           |            |
|------------------------------------------------------------|-----------|------------|
| Range of section height at inner ring of assembled bearing | $t_{Kia}$ | 5 $\mu$ m  |
| Maximum run-out of inner ring side face to the bore        | $t_{Sd}$  | 8 $\mu$ m  |
| Range of section height at outer ring of assembled bearing | $t_{Kea}$ | 11 $\mu$ m |
| Perpendicularity of outer ring outside surface             | $t_{SD}$  | 5 $\mu$ m  |
| ISO tolerance class for geoal tolerances                   |           | P5         |

### Radial internal clearance

|                           |       |
|---------------------------|-------|
| Minimum initial clearance | 50 µm |
| Maximum initial clearance | 80 µm |
| Tolerances of run-out     |       |

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS