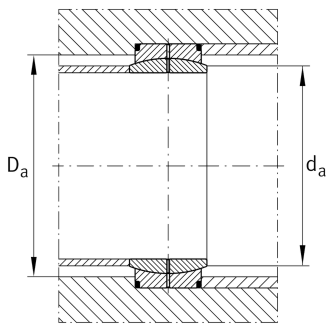


**GE420-DO**

## Spherical plain bearing

Radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, DIN ISO 12240-1, dimension series C, open design

## Technical information



## Your current product variant

|                           |                      |  |
|---------------------------|----------------------|--|
| Maintenance               | Maintenance required |  |
| Material                  | Steel                |  |
| Sealing                   | Without              |  |
| Radial internal clearance | CN (Group N)         | Normal internal clearance  |
| Coating                   | Durotect M           | Inner- and outer ring coated with Durotect M (Manganese Phosphate) |

## Main Dimensions &amp; Performance Data

|             |              |                                   |
|-------------|--------------|-----------------------------------|
| d           | 420 mm       | Bore diameter bearing             |
| D           | 560 mm       | Outside diameter bearing          |
| B           | 190 mm       | Width inner ring                  |
| $C_r$       | 9.800.000 N  | Basic dynamic load rating, radial |
| $C_{0r}$    | 37.700.000 N | Basic static load rating, radial  |
| $\approx m$ | 137 kg       | Weight                            |

## Mounting dimensions

|                   |          |                               |
|-------------------|----------|-------------------------------|
| $r_{1\text{min}}$ | 1,5 mm   | Edge Spacing                  |
| $r_{2\text{min}}$ | 4 mm     | Edge Spacing                  |
| $d_{a\text{max}}$ | 451,7 mm | Connection measure Inner ring |
| $D_{a\text{min}}$ | 469 mm   | Housing Connection Diameter   |



### Dimensions

|                   |               |  |
|-------------------|---------------|--|
| C                 | 160 mm        | Width Outer ring                       |
| d <sub>K</sub>    | 490 mm        | Ball diameter                          |
| α                 | 3,7 °         | Tilt angle                             |
| d <sub>OT</sub>   | 0 mm          | Bore diameter bearing, upper tolerance |
| d <sub>UT</sub>   | -0,045 mm     | Bore diameter bearing, lower tolerance |
| D <sub>OT</sub>   | 0 mm          | Outside diameter, upper tolerance      |
| D <sub>UT</sub>   | -0,05 mm      | Outside diameter, lower tolerance      |
| B <sub>OT</sub>   | 0 mm          | Width inner ring, upper tolerance      |
| B <sub>UT</sub>   | -0,45 mm      | Width inner ring, lower tolerance      |
| C <sub>OT</sub>   | 0 mm          | Width outer ring, upper tolerance      |
| C <sub>UT</sub>   | -1 mm         | Width outer ring, lower tolerance      |
| G <sub>r</sub>    | 0,135 - 0,261 | Radial Clearance                       |
| G <sub>rmax</sub> | 0,261 mm      | Radial clearance, maximum              |
| G <sub>rmin</sub> | 0,135 mm      | Radial clearance, minimum              |

### Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -60 °C | Operating temperature min. |
| T <sub>max</sub> | 200 °C | Operating temperature max. |



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment