

**GE8-UK**

## Spherical plain bearing

Radial spherical plain bearing, maintenance-free, sliding layer: PTFE composite, inner ring curved surface with hard chromium coating, DIN ISO 12240-1, dimension series E, open design

## Technical information



## Your current product variant

|             |                  |   |
|-------------|------------------|---|
| Maintenance | Maintenance free |   |
| Sealing     | Without          | Without   |
| Bore lining | Without          |   |
| Coating     | Without          |   |
| Fabric      | PTFE-composite   | Composite Material based on a steel backing, sintered bronze layer, with inserted plastic material. |
| Material    | Steel            |   |

## Main Dimensions &amp; Performance Data

|                 |          |                                   |
|-----------------|----------|-----------------------------------|
| d               | 8 mm     | Bore diameter bearing             |
| C <sub>r</sub>  | 5.850 N  | Basic dynamic load rating, radial |
| D               | 16 mm    | Outside diameter bearing          |
| B               | 8 mm     | Width inner ring                  |
| C               | 5 mm     | Width Outer ring                  |
| C <sub>0r</sub> | 14.600 N | Basic static load rating, radial  |
| ≈m              | 10 g     | Weight                            |

## Mounting dimensions

|                   |         |                                    |
|-------------------|---------|------------------------------------|
| r <sub>1min</sub> | 0,3 mm  | Edge Spacing                       |
| r <sub>2min</sub> | 0,3 mm  | Edge Spacing                       |
| D <sub>amin</sub> | 12,5 mm | Housing Connection Diameter        |
| d <sub>amax</sub> | 10,2 mm | Connection measurement, inner ring |










## Dimensions

|            |           |  |
|------------|-----------|--|
| $d_K$      | 13 mm     | Ball diameter                          |
| $\alpha$   | 15 °      | Tilt angle                             |
| $D_{OT}$   | 0 mm      | Outside diameter, upper tolerance      |
| $D_{UT}$   | -0,008 mm | Outside diameter, lower tolerance      |
| $B_{OT}$   | 0 mm      | Width inner ring, upper tolerance      |
| $d_{UT}$   | -0,008 mm | Bore diameter bearing, lower tolerance |
| $B_{UT}$   | -0,12 mm  | Width inner ring, lower tolerance      |
| $d_{OT}$   | 0 mm      | Bore diameter bearing, upper tolerance |
| $C_{OT}$   | 0 mm      | Width outer ring, upper tolerance      |
| $C_{UT}$   | -0,24 mm  | Width outer ring, lower tolerance      |
| $G_r$      | 0 - 0,032 | Radial Clearance                       |
| $G_{rmax}$ | 0,032 mm  | Radial clearance, maximum              |
| $G_{rmin}$ | 0 mm      | Radial clearance, minimum              |

## Temperature range

|           |        |                            |
|-----------|--------|----------------------------|
| $T_{min}$ | -50 °C | Operating temperature min. |
| $T_{max}$ | 200 °C | Operating temperature max. |

## Characteristics

|   |  |
|---|--|
|  | Radial load                                    |
|  | Axial load in one direction                    |
|  | Axial load in two directions                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Not sealed                                     |
|  | Static angular error and misalignment          |
|  | Dynamic angular error and misalignment         |