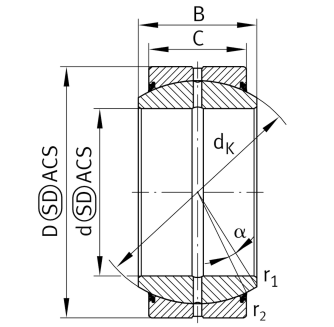
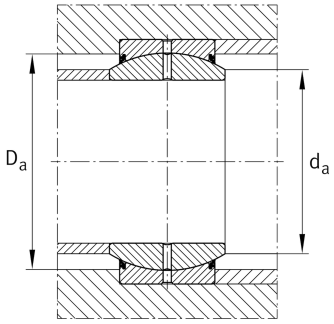
GE100-DO-2RS-C3

Spherical plain bearing

High performance radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, DIN ISO 12240-1, dimension series E, sealedHigh-performance: For highest load rating and lifetime demands

Technical information





Your current product variant

Maintenance	Maintenance required	
Material	Steel	
Sealing	2RS	Lip seals on both sides
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Coating	Durotect M	Inner- and outer ring coated with Durotect M (Manganese Phosphate)

Main Dimensions & Performance Data

d	100 mm	Bore diameter bearing
D	150 mm	Outside diameter bearing
B	70 mm	Width inner ring
C_r	790.000 N	Basic dynamic load rating, radial
C_{0r}	3.040.000 N	Basic static load rating, radial
≈m	4,3 kg	Weight

Mounting dimensions

r_{1smin}	1 mm	Edge Spacing
r_{2smin}	1 mm	Edge Spacing
$d_{a\ max}$	109,5 mm	Connection measure Inner ring
$D_{a\ min}$	123 mm	Housing Connection Diameter

Dimensions

C	55 mm	Width Outer ring
d_K	130 mm	Ball diameter
α	7 °	Tilt angle
d_{OT}	0 mm	Bore diameter bearing, upper tolerance
d_{UT}	-0,02 mm	Bore diameter bearing, lower tolerance
D_{OT}	0 mm	Outside diameter, upper tolerance
D_{UT}	-0,018 mm	Outside diameter, lower tolerance
B_{OT}	0 mm	Width inner ring, upper tolerance
B_{UT}	-0,2 mm	Width inner ring, lower tolerance
C_{OT}	0 mm	Width outer ring, upper tolerance
C_{UT}	-0,5 mm	Width outer ring, lower tolerance
G_r	0,165 - 0,245	Radial Clearance
G_{rmax}	0,165 mm	Radial clearance, maximum
G_{rmin}	0,085 mm	Radial clearance, minimum

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	130 °C	Operating temperature max.

Characteristics

- Radial load
- Axial load in one direction
- Axial load in two directions
- Grease Lubrication
- Sealed on both sides
- Static angular error and misalignment
- Dynamic angular error and misalignment