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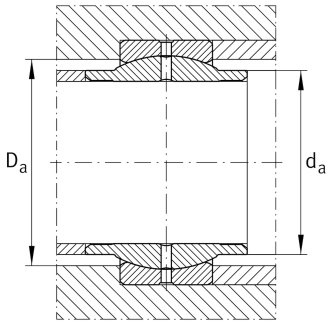
SCHAEFFLER

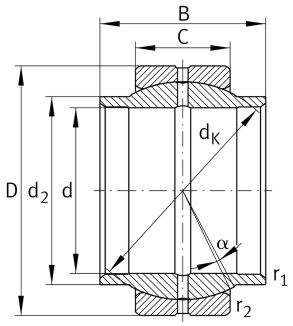
GE80-LO-E

Spherical plain bearing

Standard performance Radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, DIN ISO 12240-1, dimension series W, cylindrical extensions on inner ring, open design

Technical information





Your current product variant

Maintenance	Maintenance required	
Material	Steel	
Type of 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 & Performance Data

d	80 mm	Bore diameter bearing
D	120 mm	Outside diameter bearing
B	80 mm	Width inner ring
C_r	402.000 N	Basic dynamic load rating, radial
C_{0r}	2.010.000 N	Basic static load rating, radial
≈m	2,6 kg	Weight

Mounting dimensions

r_{1smin}	1 mm	Edge Spacing
r_{2smin}	1 mm	Edge Spacing
$d_{a\ max}$	91 mm	Connection measure Inner ring
$D_{a\ min}$	99 mm	Housing Connection Diameter

Dimensions

C	45 mm	Width Outer ring
d_K	105 mm	Ball diameter
α	4 °	Tilt angle
d_{OT}	0,03 mm	Bore diameter bearing, upper tolerance
d_{UT}	0 mm	Bore diameter bearing, lower tolerance
D_{OT}	0 mm	Outside diameter, upper tolerance
D_{UT}	-0,015 mm	Outside diameter, lower tolerance
B_{OT}	0 mm	Width inner ring, upper tolerance
B_{UT}	-0,3 mm	Width inner ring, lower tolerance
C_{OT}	0 mm	Width outer ring, upper tolerance
C_{UT}	-0,4 mm	Width outer ring, lower tolerance
G_r	0,072 - 0,142	Radial Clearance
G_{rmax}	0,142 mm	Radial clearance, maximum
G_{rmin}	0,072 mm	Radial clearance, minimum

Temperature range

T_{min}	-60 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Not sealed


Static angular error and misalignment


Dynamic angular error and misalignment