

## Technical data sheet

GE ... EW

DIN ISO 12240-1

series E

Sliding contact surface: hard chromium / Teflon<sup>®</sup>-cotton fabric >> maintenance-free

===== For dimensions of the bearings please see → dimension tables =====

## Mounting conditions GE ... EW

	Valid for shaft-Ø	Surface quality	Fitting
Steel shaft	$17 \leq d \leq 300 \text{ mm}$	$\leq Rz 10$	j6
Steel housing	$17 \leq d \leq 300 \text{ mm}$	Rz 10 to Rz 16	K7
Light metal housing	$17 \leq d \leq 300 \text{ mm}$	Rz 10 to Rz 16	M7

## Limits of edge breaks [mm] GE ... EW

d [mm]	$17 \leq d \leq 20$	$20 < d \leq 30$	$30 < d \leq 50$	$50 < d \leq 160$	$160 < d \leq 300$
$r_{1\text{min}}$ [mm]	0,3	0,6	0,6	1,0	1,1
$r_{2\text{min}}$ [mm]	0,3	0,6	1,0	1,0	1,1

## Internal clearance groups [µm] GE ... EW

d [mm]	$17 \leq d \leq 20$	$20 < d \leq 35$	$35 < d \leq 60$	$60 < d \leq 90$	$90 < d \leq 140$	$140 < d \leq 240$	$240 < d \leq 300$
CN	0 to 40	0 to 50	0 to 60	0 to 72	0 to 85	0 to 100	0 to 110

Further internal clearance groups on inquiry

Temperature range: -50°C to +150°C

**Materials:** outer ring: rolling bearing steel (100 Cr 6 depending on cross section!), hardened with inserted PTFE-fabric sliding material  
inner ring: rolling bearing steel (100 Cr 6 depending on cross section!), hardened, spherical surface chromium-plated

## All advantages at a glance:

- much higher load rating capacities
- reduced bearing compression (= longer life)
- 40% higher axial load capacity ( $F_A \leq F_R \times 0,5$ )
- higher alternating load capacity ( $0,5 \times C = 150 \text{ N/mm}^2$ )
- maximum temperature range (from -50 to +150°)
- maximum humidity resistance (>50.000h at 100% air humidity and +40°)

The increased capacity is resulting from the effective use of the outer ring width.

Due to their spherical mobility radial spherical plain bearings can only be protected effectively against undesirable environmental influences by external seals. Concerning this subject you will find further information in our Special Catalogue.