

## deva.glide – self lubricating bearing material

### 1. Structure

High-quality bearing bronze with solid lubricant pockets and a thin film of solid lubricant aiding the running-in process.

### 2. Characteristics

- maintenance free bearing material suitable for heavy working conditions,
- insensitive to edge pressures, contaminations, impact loads and corrosion,
- maximum working temperature up to 250°C,
- optimal performance at heavy loads and low speeds with intermittent work,
- deva.glide absorbs vibrations, compensates misalignments and conducts heat,
- suitable for rotating, oscillating, reciprocating and linear,
- can also work in lubricated applications.

### 3. Applications

- canal locks, weirs, hydromechanical engineering, offshore industry, iron foundries and steel works, heavy machinery, cranes and conveyors, deep and open cast mining machinery, construction and earth-moving machinery, etc.

### 4. Availability

- to order: cylindrical bushes, flanged bushes, washers, spherical bearings, plates and non standard parts.

### 5. Technical data of deva.glide dg02 (most common)

Parameter		Unit	Value
Maximum load	static	MPa	100*
	dynamic		70*
Maximum sliding speed	dry	m/s	0,4
Maximum p x v factor	dry	MPa x m/s	1*
Working temperature	maximum	°C	+250
	minimum		-100
Coefficient of friction	dry	-	0,10 – 0,12*
	in water		0,08 – 0,12
Surface Ra finish	shaft	µm	0,2 – 0,8
	housing		3,2
Fitting	shaft	-	c8, d8
	housing		H7
Shaft hardness		HB	180
		HRC	35

\* - different values for other deva.glide types (dg01, dg03, dg04, dg05)

### 6. Working conditions

dry	good
oil lubricated	good
grease lubricated	good
water lubricated	good
process fluid lubricated	fair

### 7. Assembly tips

Press-fit installation or supercooling.

Fixture with countersunk screws or glue.

A running-in film on the sliding layer extends the bearing lifetime under certain operating conditions.

Additional machining permitted.

