

## deva.bm – self lubricating bearing material

### 1. Structure

Thin layer of deva.metal on a bronze or steel or stainless steel strip.

### 2. Characteristics

- maintenance free, thin wall bearing material suitable for heavy working conditions,
- suitable for higher loads than deva.metal,
- maximum working temperature up to 350°C,
- optimal performance at low speeds and intermittent work,
- high corrosion resistance,
- can work in dust and in radioactive environment,
- deva.bm9p is a conductor and it does not collect electrostatic charge,
- suitable for rotating, oscillating, reciprocating and linear motions as well as for micro-motions,
- more economic solution than deva.metal (thin walled),
- insensitive to edge pressures.



### 3. Applications

- water turbines, injection moulding machinery, packing machinery, food and beverage industry machinery, printing machinery, shut-off valves, hydro-mechanical engineering, tire moulds, apparatus engineering, etc.

### 4. Availability

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

### 5. Technical data

Parameter		Unit	Value
Maximum load	static	MPa	250 – 320*
	dynamic		80 – 150*
Maximum sliding speed	dry	m/s	0,1 – 1,0*
Maximum p x v factor	dry	MPa x m/s	0,4 – 1,5*
Working temperature	maximum	°C	+120 – +280*
	minimum		-150
Coefficient of friction	dry	-	0,1 – 0,18*
Surface Ra finish	shaft	µm	0,2 – 0,8
	housing		3,2
Fitting	shaft	-	d7**
	housing		H7
Shaft hardness		HB	180
		HRC	35

\* – depends from deva.metal alloy on the sliding layer,

\*\* – for general applications, for precision applications e7,

### 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.

An optional running-in film can extend the bearing lifetime under certain operating conditions.