

LD<sup>®</sup>

**BRONZE BEARINGS MADE OF CUSN8  
WITH GREASE RESERVOIRS**



**APPLICATIONS**

**Industrial** – Mechanical handling and lifting equipment, hydraulic cylinders, pneumatic equipment, medical equipment, textile machinery, agricultural equipment, etc.

**CHARACTERISTICS**

- Wear resistant bearing made of solid bronze strip with perforation for lubricated applications
- Improved performance compared with MBZ-B09 bronze bearings: larger grease reservoirs increase maintenance intervals, dirt and debris swept into perforations, thereby reducing wear
- Optimum performance under relatively high loads and low speeds

**AVAILABILITY**

**Bearing forms made to order:** Cylindrical bushes with non-standard dimensions, customized bearing designs



BEARING PROPERTIES		UNITS	VALUE
<b>GENERAL</b>			
Maximum load, p	Static	N/mm <sup>2</sup>	120
	Dynamic	N/mm <sup>2</sup>	40
Operating temperature	Min	°C	- 40
	Max	°C	150
<b>GREASE LUBRICATED</b>			
Maximum sliding speed, U		m/s	2.5
Maximum pU factor		N/mm <sup>2</sup> x m/s	2.8
Coefficient of friction			0.06 - 0.15
<b>RECOMMENDATIONS</b>			
Shaft surface roughness, Ra		µm	≤ 0.8
Shaft surface hardness	Normal	HB	> 200
	For longer service life	HB	> 350

MBZ-B09, LD, LDD are products of Wieland Werke AG, Germany

#### OPERATING PERFORMANCE

Dry	Poor
Oil lubricated	Fair
Grease lubricated	Good
Water lubricated	Poor
Process fluid lubricated	Poor

#### MICROSECTION



CuSn8 with  
 composition  
 Sn 8 %  
 P < 0.05 %  
 Cu Rest