

LD[®]

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
GENERAL			
Maximum load, p	Static	N/mm ²	120
	Dynamic	N/mm ²	40
Operating temperature	Min	°C	- 40
	Max	°C	150
GREASE LUBRICATED			
Maximum sliding speed, U		m/s	2.5
Maximum pU factor		N/mm ² x m/s	2.8
Coefficient of friction			0.06 - 0.15
RECOMMENDATIONS			
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