

LD

Bronze Bearings made of CuSn8 with Grease Reservoirs



CHARACTERISTICS

- Wear resistant bearing made of solid bronze strip with perforation for lubricated applications
- Improved performance compared with MBZ-B09: 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

APPLICATIONS

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



LD Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	17 000	N-mm ²	120
	Dynamic	psi	6 000	N-mm ²	40
Operating temperature	Min	°F	- 40	°C	- 40
	Max	°F	300	°C	150
Grease Lubricated					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	80 000	N/mm ² x m/s	2.8
Coefficient of friction			0.06 - 0.15		0.06 - 0.15
Recommendations					
Shaft surface roughness, Ra		µin	≤ 32	µm	≤ 0.8
Shaft surface hardness	Normal	HB	> 200	HB	> 200
	For longer service life	HB	> 350	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