

MBZ-B09

Bronze Bearings made of CuSn8
with Lubrication Indents



CHARACTERISTICS

- Bearing material made of solid bronze strip with indents for lubrication
- Good wear resistance, suitable for rough conditions
- Optimum performance under relatively high loads and low speeds

AVAILABILITY

Bearing forms available in standard dimensions

 Cylindrical bushes

Bearing forms made to order: cylindrical bushes with non-standard dimensions, flanged bushes, sliding plates, customized bearing designs



APPLICATIONS

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



MBZ-B09 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 greased	°F	300	°C	150
	Max oil lubricated	°F	480	°C	250
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	Good
Grease lubricated	Good
Water lubricated	Poor
Process fluid lubricated	Poor

Microsection



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