

The Global Leader
in High Performance Bearing Solutions

an EnPro Industries company



DU-B

Metal-Polymer Bronze Backed PTFE Plain Bearing

CHARACTERISTICS

- Very good wear and low friction performance over a wide range of loads, speeds and temperatures in dry running conditions
- Suitable for lubricated applications
- Suitable for linear, oscillating and rotating movements
- Bronze back offers improved corrosion resistance in humid/saline environments
- Approved to standard EN1337-2 for structural bearings for civil engineering

AVAILABILITY

Bearing forms available in standard dimensions

Cylindrical bushes

Flanged bushes

Sliding plates

Bearing forms made to order: standard forms in special dimensions, thrust washers, flanged thrust washers, half-bearings, special shapes obtained by stamping or deep drawing, customized bearing designs

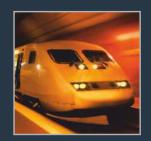
APPLICATIONS

Industrial: Aerospace, agricultural equipment, construction equipment, material handling equipment, forming machines - metal, plastic and rubber; office equipment, medical and scientific equipment, packaging equipment, pneumatic and hydraulic cylinders, pumps and motors, railroad and tramways, textile machinery, valves, etc.

Others: Marine and offshore equipment, other applications in water or in outdoor environments









For additional market / product offerings, go to https://www.ggbearings.com

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DU-B Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static Dynamic	psi psi	20 000 20 000	N/mm² N/mm²	140 140
Operating temperature	Min Max	°F °F	- 328 536	°C	- 200 280
Coefficient of linear thermal expansion	Parallel to the surface Normal to the surface	10 ⁻⁶ /F 10 ⁻⁶ /F	10 20	10 ⁻⁶ /K 10 ⁻⁶ /K	18 36
Dry					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	50 000	N/mm ² x m/s	1.8
Coefficient of friction			0.02 - 0.25*		0.02 - 0.25*
Oil Lubricated					
Maximum sliding speed, U		fpm	1 000	m/s	5.0
Maximum pU factor		psi x fpm	143 000	N/mm ² x m/s	5.0
Coefficient of friction			0.02 - 0.12		0.02 - 0.12
Recommendations					
Shaft surface roughness, Ra	Dry Lubricated	μin μin	12 - 20 ≤ 2 - 16*	μm μm	0.3 - 0.5 ≤ 0.05 - 0.40*
Shaft surface hardness	Unhardened acceptable, improved bearing life	НВ	> 200	НВ	> 200

^{*} Depending on operating conditions

Operating Performance	
Dry	Very Good
Oil lubricated	Good
Grease lubricated	Fair
Water lubricated	Good
Process fluid lubricated	Fair

For Superior / Lead-free Performance	
Dry	DP4-B
Oil lubricated	DP4-B
Grease lubricated	DP4-B
Water lubricated	DP4-B
Process fluid lubricated	DP4-B

