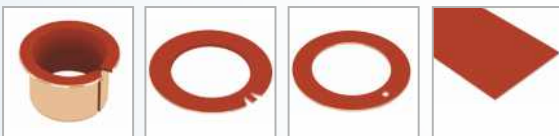


## DP4-B

### Metal-Polymer Bronze Backed PTFE Plain Bearing






#### CHARACTERISTICS

- Good wear and low friction performance over a wide range of loads, speeds and temperatures in dry running conditions
- Very good performance in lubricated applications
- Good performance in greased applications
- Suitable for linear, oscillating and rotating movements
- Bronze back offers improved corrosion resistance in humid/saline environments
- Lead-free material compliant to EVL, WEEE, and RoHS specifications

#### AVAILABILITY

##### Bearing forms available in standard dimensions

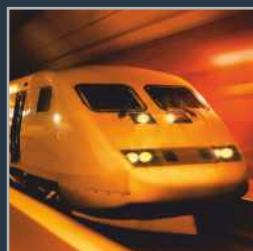
-  Cylindrical bushes
-  Flanged bushes
-  Sliding plates

**Bearing forms made to order:** standard forms in special dimensions, thrust washers, langed thrust washers, half-bearings, special shapes obtained by stamping or deep drawing, bearings with locating notches, lubricant holes and machined/stamped grooves

#### 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:** Civil engineering, marine and offshore equipment, other applications in water or in outdoor environments, etc.



## DP4-B Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
<b>General</b>					
Maximum load, p	Static	psi	20 000	N/mm <sup>2</sup>	140
	Dynamic	psi	20 000	N/mm <sup>2</sup>	140
Operating temperature	Min	°F	- 328	°C	- 200
	Max	°F	536	°C	280
Coefficient of linear thermal expansion	Parallel to the surface	10 <sup>-6</sup> /F	10	10 <sup>-6</sup> /K	18
	Normal to the surface	10 <sup>-6</sup> /F	20	10 <sup>-6</sup> /K	36
<b>Dry</b>					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	29 000	N/mm <sup>2</sup> x m/s	1.0
Coefficient of friction			0.04 - 0.25*		0.04 - 0.25*
<b>Oil Lubricated</b>					
Maximum sliding speed, U		fpm	1 000	m/s	5.0
Maximum pU factor		psi x fpm	286 000	N/mm <sup>2</sup> x m/s	10.0
Coefficient of friction			0.02 - 0.08*		0.02 - 0.08*
<b>Recommendations</b>					
Shaft surface roughness, Ra	Dry	µin	12 - 20	µm	0.3 - 0.5
	Lubricated	µin	≤ 2 - 16*	µm	≤ 0.05 - 0.40*
Shaft surface hardness	Unhardened acceptable, improved bearing life	HB	> 200	HB	> 200

\* Depending on operating conditions

### Operating Performance

Dry	Good
Oil lubricated	Very Good
Grease lubricated	Good
Water lubricated	Good
Process fluid lubricated	Good

