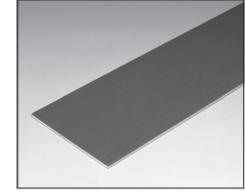
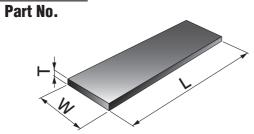
Oiles Drymet LF Plates





Specify Part No. by required thickness and width. (e.g.) Thickness is 1.5mm and width is 90mm.

LFP - 1590

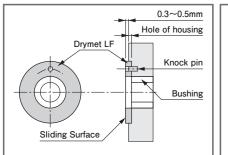


Sliding surface consists of a plastic layer.

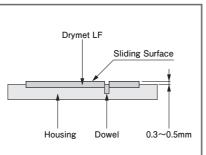
	Thick	(ness	Width	Length
Part No.	Т	Tolerance	W	L
LFP-1080	1.0	-0.03 -0.13	80	500
LFP-1590	1.5	-0.03 -0.13	90	500
LFP-20100	2.0	-0.03 -0.13	100	500
LFP-25100	2.5	-0.03 -0.13	100	500

How to attach washers, plates

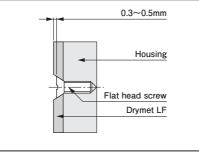
①Knock pin method (Thrust washer)



2Inlay method (Plate)



3Flat head screw method



*Sliding surface consists of a plastic layer.

Sliding surface consists of a plastic layer.

4Using glue

In the case of (2), the washer and plate may be inserted with glue, not a knock pin. Synthetic epoxy plastic glue is suitable, though no glue is specified, in particular. Be careful because fitting with glue only may result in separation in some cases.

Oiles LF Guides Guide unit bearings



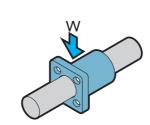




Feature

- Incorporates Oiles bearings for self-lubricating operations.
- Features low coefficient of friction and superior wear resistance.
- Easily mountable. Compatible with ball bearing types.
- Low prices with simple structures.

Design condition



Part No.	Allowable loa	ad W N {kgf}	Allowabic volocity outlied temperature			
Pait NU.	Dynamic	Static	m/s {m/min}	°C		
LFG12-30	235 { 24}	706 { 72}				
LFG16-37	376 { 38}	1,129 {115}				
LFG20-42	588 { 60}	1,764 {180}	0.67 {40}	-30~+130%		
LFG25-59	980 {100}	2,940 {300}				
LFG30-64	1,323 {135}	3,969 {405}				

**Temperature range for dust seal.

*Unusable under the condition of water, splashing water and high humidity.

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Oiles LF Guides

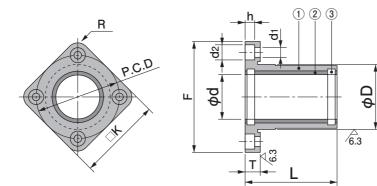




• Recommended mating shaft tolerance is g6 to e7.

Specify Part No. by required I.D. and length. (e.g.) I.D. is 20mm and length is 42mm.

LFG 20 - 42 Part No.

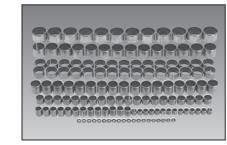


	Part name	Material
1	Housing	Aluminum with rust-proof finish
2	Bearing	Drymet LF
(3)	Dust seal	NBR

	I.D.	0.	.D.	Ler	ngth					_	Mou	ınting l	hole	
Part No.	φd	φD	Tolerance	L	Tolerance	F	K	T	P.C.D	R	d ₁	d 2	h	Bolt
LFG12-30	12	21	-0.017 -0.032	30	-0.3	42.8	32	6	32	3	4.5	8	4.1	M4
LFG16-37	16	28	-0.017 -0.032	37	0 -0.3	49.0	37	6	38	4	4.5	8	4.1	M4
LFG20-42	20	32	-0.024 -0.038	42	-0.3	55.3	42	8	43	5	5.5	9.5	5.1	M5
LFG25-59	25	40	-0.024 -0.038	59	0 -0.3	64.9	50	8	51	7	5.5	9.5	5.1	M5
LFG30-64	30	45	-0.029 -0.042	64	0 -0.3	75.4	58	10	60	8	6.6	11	6.1	M6

*Unusable under the condition of water, splashing water and high humidity.

Oiles Techmet B Polytetrafluoroethylene plastic multi-layer bearings with back metals





Feature

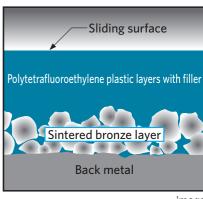
- Serviceable without the need for lubrication. Features superior dimensional stability, mechanical strength, and thermal conductivity with a thin, lightweight, and compact design.
- Demonstrates stable low coefficient of friction and superior wear resistance under high-speed conditions.
- The plastic layers have machining allowance, allowing high dimensional accuracy when the inner diameter is machined.
- The standard products in various sizes are available on order.

Service range				
Lubrication condition	Dry			
Service temperature range °C	−50~+250			
Allowable max. pressure P N/mm² {kgf/cm²}	19.5 (137) {199 (1,400)}			
Allowable max. velocity V m/s {m/min}	2.50 {150}			
Allowable max. PV value N/mm²·m/s [kgf/cm²·m/min]	1.45 [887]			

The values in parentheses are static bearing pressures, which are the bearing pressures in applications with no motion or very small motion (≤0.0017m/s

Mechanical properties					
Tensile strength	JIS Z 2241	N/mm ² {kgf/cm ² }	380 {3,875}		
Elongation	JIS Z 2241	%	27		
Hardness	JIS Z 2244	HV	107		

- *The values shown above are typical values, not the standard values. *The values shown above are values of back metal.
- Please refer to the fitting method of Drymet LF. (P.153, 154)



image

Lathe turning						
	carbide tool (JIS)					
g tool	Relief angle	5~10°				
Cutting tool	Rake angle	10~20°				
	Nose radius, (mm)	0.10~0.20				
n	Speed (m/min)	60~200				
Condition	Cut depth (mm)	0.05~0.10				
ပ	Feed (mm/rev)	0.05~0.20				

Attention should be paid to dimensional variances due to thermal expansion, chucking, and bend of the material.

The Oiles Techmet should be ground. If it is reamed, it is difficult to maintain the dimension in mass production.

The I.D. machining allowance is 0.2 mm for the diameter.

Machining accuracy (bushing)						
I.D.	0.D.	Length				
class 7 (Note)		class 8 to 9				

(Note) Accuracy after press fitting.

Classes here are in JIS standard.

This product demonstrates satisfactory performance at the slide surface roughness of Rz6.3 to 12.5 μ m.

Dimensions may change due to thermal expansion, chucking pressure, moisture absorption deformation, etc. High accuracy is ensured if the product is installed on the housing and then ground.

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