

# Wrap Around Design – LW Standard Operating Parameters

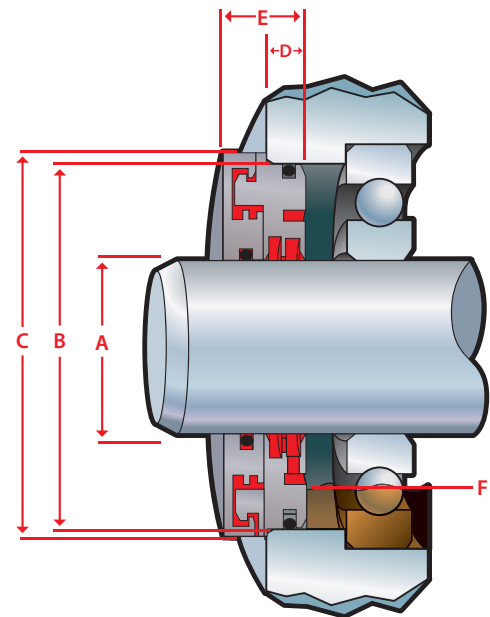
Total Eccentricity: .020" (.51 mm)  
 Shaft Speed: Up to 3,000 fpm<sup>4</sup> (15 m/s)  
 Pressure: 0 psi / bar  
 Temperature Range: -40 to 250 F (-40 to 121 C)  
 Axial Movement: .020" (.51 mm) special designs up to .070" (1.78 mm)  
 Shaft / Bore Tolerances: ± .002" (± .05 mm)  
 Special designs available

**Seal Material:**

Standard Proprietary PTFE  
 Optional Food grade, Anti microbial, FDA 3A

**O-Ring Material:**

Standard FKM  
 Optional NBR, FDA silicone, EPDM, Aflas®



MOUNTING		LUBRICATION		
	Position	Grease	Oil	Dry
Horizontal	Y	Y	Y	Y
Vertical Up	Y*	Y	Y	Y
Vertical Down	Y	Y	N	Y

\*Optional "LX" design (w/o drain port) recommended

**Retain** Grease and oil splash (operating oil level in cavity between seal and bearing must be below inboard oil drain-back port of seal "F")  
**Exclude Equipment** Heavy water spray and dry contaminants from bearing cavity  
 Motors, pumps, mixers, gearboxes, blowers and custom equipment.

STANDARD DIMENSIONS					
Type	"A" Shaft Diameter Range Inch	"B" Bore Diameter Range Is Shaft Diameter "A" + Min-Max	"C" Flange Diameter = "B" +	"D" In Bore Depth	"E" Overall Seal Width
LWE <sup>3</sup>	0.492 – 1.575	0.394 – 1.575	0.236 <sup>1</sup>	0.276	0.630
LWE <sup>3</sup>	1.576 – 2.362	0.472 – 1.575	0.236 <sup>1</sup>	0.315	0.669
LWE <sup>3</sup>	2.363 – 3.150	0.630 – 1.575	0.236 <sup>1</sup>	0.354	0.709
LWE	3.151 – 5.118	0.866 – 1.575	0.236	0.354	0.709
LWE	5.119 – 10.000 <sup>2</sup>	0.945 – 1.575	0.236	0.433	0.787

Type	"A" Shaft Diameter Range Metric	"B" Bore Diameter Range Is Shaft Diameter "A" + Min-Max	"C" Flange Diameter = "B" +	"D" In Bore Depth	"E" Overall Seal Width
LWM <sup>3</sup>	12.5 – 40.0	10.0 – 40.0	6.0 <sup>1</sup>	7.0	16.0
LWM <sup>3</sup>	40.1 – 60.0	12.0 – 40.0	6.0 <sup>1</sup>	8.0	17.0
LWM <sup>3</sup>	60.1 – 80.0	16.0 – 40.0	6.0 <sup>1</sup>	9.0	18.0
LWM	80.1 – 130.0	22.0 – 40.0	6.0	9.0	18.0
LWM	130.1 – 254.0 <sup>2</sup>	24.0 – 40.0	6.0	11.0	20.0

<sup>1</sup> May be larger for small cross sections, consult factory for dimensions  
<sup>2</sup> Contact factory for requirements outside of standard dimensions listed above  
<sup>3</sup> Shaft diameters under 1.575" (40 mm) & cross sections under .433" (11 mm) have standard inboard oil splash grooves  
 Note: Cross Section = (Bore – Shaft) / 2  
<sup>4</sup> Contact factory for speeds over 3,000 fpm (15 m/s)