

LDM Type I: Light Density

The CentriFlow® Light Density Meter (LDM) is a specialized version of the CentriFlow® Meter designed to measure low-density materials (typically products 10 lb/ft³ or less). The radius of the Measurement Pan is twice that of the Standard CentriFlow® Meter. By enlarging the Measurement Pan's radius, the LDM is able to accommodate low-density, bulky, large-particle materials such as tobacco (whole leaf, strip, stems, processed leaf, etc.), wood chips, leafy vegetables and many other similar materials. The LDM is available in a variety of sizes to accommodate almost any product that is being fed from a belt or vibratory conveyor. Due to the bulky nature and the larger particle size of products typically fed through the LDM Meter, the meter is typically installed in the In-Line Feed orientation. It can, however, be installed in the Reverse Feed orientation as well.



Material Specification

- Standard meter parts (those other than the product contact surfaces) are constructed of 6061 aluminum or Stainless Steel.
- Standard product flow surfaces (parts within the product flow path) are constructed of Stainless Steel or UHMW. Other materials are available.
- Stainless Steel liners with a variety of coatings are available for high-wear applications or applications where flow concerns are present.
- A variety of liners and coatings are available and can be substituted for the standard flow surfaces if required by the application.

Design Specification

- The Pan is twice the radius of the standard CentriFlow® Type I Meter.
- The Tangential is curved and tilted back in order to improve product flow through the meter.
- Feed Transitions are rarely needed when installing the CentriFlow® LDM Meter.
- The LDM can be tilted back (up to 20 Degrees) to improve product flow.
- Custom Enclosures are available for enclosing the LDM Meter if required. Contact EI for details about this option.

Volumetric Capacity of the CentriFlow® LDM Meter for REVERSE FLOW ft³/min (m³/hr)

Meter Size	Belt		Vibratory	
	Min	Max	Min	Max
LDM-06	0.84 (1.43)	16.88 (28.67)	8.44 (14.34)	25.31 (43.01)
LDM-12	1.88 (3.19)	37.50 (63.71)	18.75 (31.86)	56.25 (95.57)
LDM-24	3.75 (6.37)	75.00 (127.43)	37.50 (63.71)	112.50 (191.14)
LDM-36	5.63 (9.56)	112.50 (191.14)	56.25 (95.57)	168.75 (286.71)
LDM-48	7.50 (12.74)	150.00 (254.85)	75.00 (127.43)	225.00 (382.28)

Volumetric Capacity of the CentriFlow® LDM for IN-LINE FLOW ft³/min (m³/hr)

Meter Size	Belt		Vibratory	
	Min	Max	Min	Max
LDM-06	8.44 (14.34)	50.63 (86.01)	8.44 (14.34)	25.31 (43.01)
LDM-12	18.75 (31.86)	112.50 (191.14)	18.75 (31.86)	56.25 (95.57)
LDM-24	37.50 (63.71)	225.00 (382.28)	37.50 (63.71)	112.50 (191.14)
LDM-36	56.25 (95.57)	337.50 (573.41)	56.25 (95.57)	168.75 (286.71)
LDM-48	75.00 (127.43)	450.00 (764.55)	75.00 (127.43)	225.00 (382.28)