

Flow MD Small Volume Prover Datasheet FMD-130



A Unit of IDEX Corporation



Flow MDs Small Volume Provers set the standard in small volume proving technology. With an innovative and patented design, the Flow MD line of provers provides superior performance, design, and functionality. All FMD Provers conform to API MPMS Chapter 4 Standards. The FMD-130 includes 16" ANSI B16.5 flanges on both the inlet and outlet, 2" drain flanges and 2" vents with thermowell and ports for temperature and pressure verification. The FMD-130 is an ideal choice for your small volume proving application.

Performance Specifications:

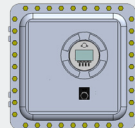
- Repeatability: < 0.02% - Exceeds API Standard
- Performance: Exceeds 0.02% (ISO17025 Calibration Lab)
- Uncertainty: Typically 0.008% (Water Draw)
- Pressure Drop: 5 psi at max flow rate of each prover (calculated with water)
- Turndown: 1200:1*

*1200:1 Turndown is typical of normal operations. Turndown ratio can vary significantly depending on installation and process conditions. Actual turndown may be much greater than 1200:1 in some conditions such as water draw, or much less in high pressure, dry product applications such as NGL service.

Included with Standard Prover Package:



Electrical Connections



P.I.M Electronics Module

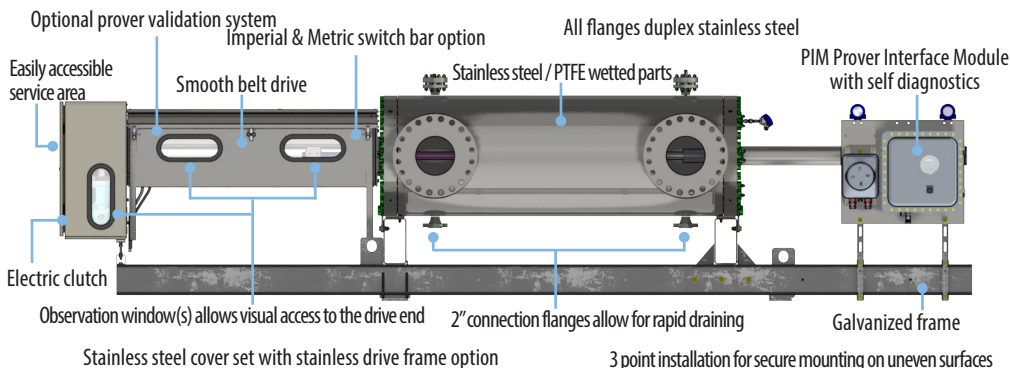


Vent Manifolds (2)

Proving calculations require switch bar temperature, tube temperature and tube pressure. FMD quotes these as standard options with the prover package.

Other Available Options: Spare Parts Kit - Drain Kit - Insulation Kit - Thermal Relief Kit - Leak Detector Kit - Shaft Seal Monitor Kit - Spectacle Blind Kit - Density Kit - Prover Validation Kit - PDAQ Kit

FMD Prover Features:



Flow Management Devices raises the bar in Small Volume Prover performance and design with our comprehensive line of Unidirectional Captive Displacement Provers.

Prover Specifications

* Max Flow Rate

BPH	GPM	M ³ H
13,000	18,500	2,900

*We want to ensure that you get the proper FMD Small Volume Prover for your application. FMD Provers are compatible with most meter types, including Coriolis, Turbine, Helical Turbine, Positive Displacement, and Ultrasonic. Meter type, brand, operating conditions, and fluid characteristics will affect prover sizing. Please reach out to us to discuss your specific application and the optimal FMD Prover for your application.

**Displaced Volume

Gallons		*Liters	
Primary	Secondary	Primary	Secondary
90	60	340	227

**Please Note: Standard prover volume is in gallons, liters are optional. Prover requires non-standard switchbar for liters. Alternate displaced volumes are available for liters, please contact factory for additional information.
* Liters are a direct conversion and not indicative of Seraphin can sizes.

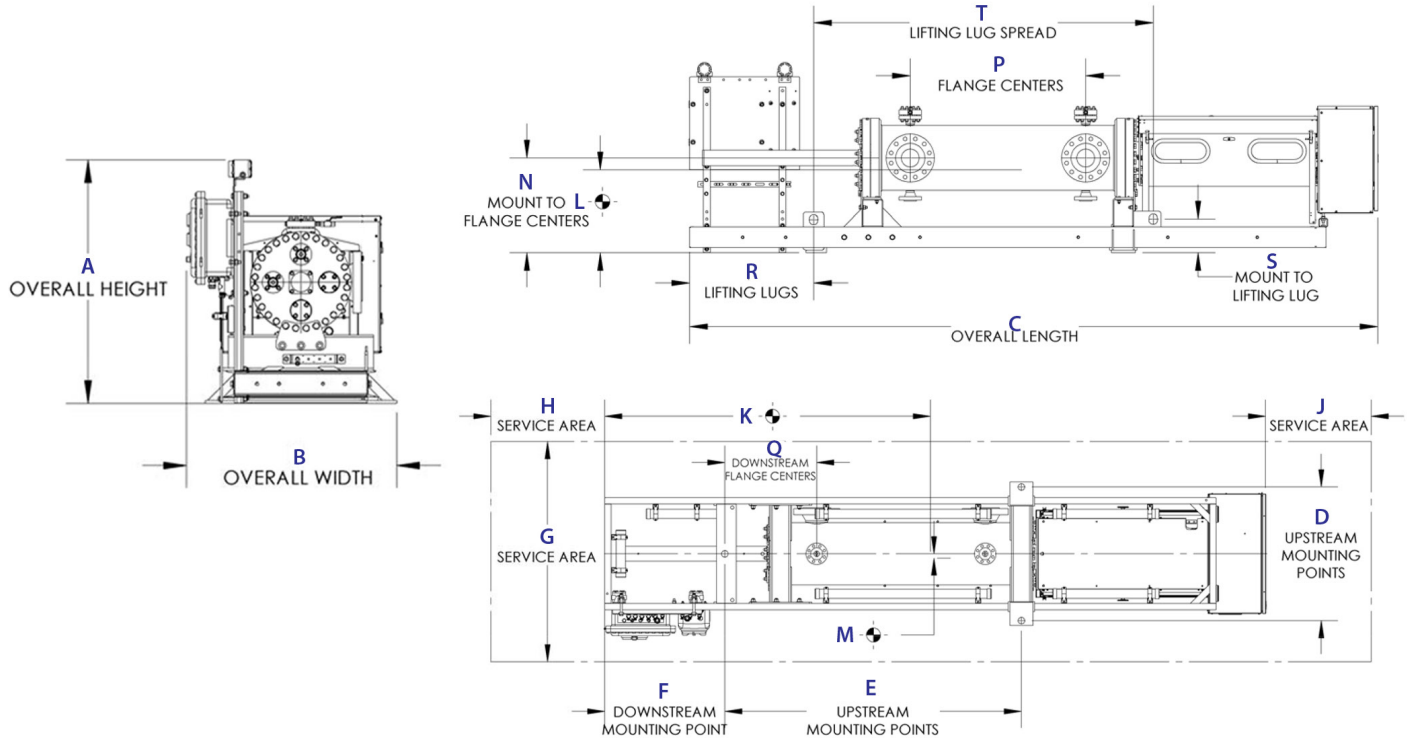
Approvals & Certifications

ISO	9001:2015 Cert# 0110-156-2, 17025:2005 Cert # L14240
EC	Mach Dir:2006/42/EC, EN 12100-2:2003, ATEX Directive 94/9/EC, EN 13463-1:2009, EN 13463-5:2003, EN 60079-0, EN 60079-7, EN 60079-11
CSA (US & Canada)	Class 3218 06, Class 1 Div 1 Group D; Class 1 Div 2 Group D / Clutch & Brake Assembly - EX m IIC T5
IECEX	USA /ETL/QAR 15.0014/00 , 101653329CRT-002
ABSA	CRN: OF1072.2

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“Continuously Improving Liquid Measurement Technology”

FMD-130 Data Sheet



Dimensions FMD-130	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
Pressure Rating																			
150#	67.19	64.25	279.50	56	94.13	86.50	124	30	30	160	35	2	42.25	73	10.63	75.25	17.25	112	23.00
300#	66.13	64.50	279.50	56	98.25	82.38	124	30	30	155	35	1	42.25	73	12.63	71.38	17.25	116.25	24.63
600#	69.13	64	288.38	56	106	84.50	124	30	30	157	37	1	42.88	71.50	17.75	75.50	17.25	121	25.50
900#	Please consult factory for dimensions																		

Drawing Notes: 1. Dimensions "K" and "L" are for center of gravity within 6 inches. 2. Spacial dimensions have a tolerance of 1.00 inches. 3. Dimension "P" is inlet-to-outlet flange distance, drains and vents may vary. 4. All FMD-130 600# and FMD-200 models have 8 lifting lugs. Table gives dimensions to outermost lugs. 5. All dimensions are subject to change without notice. 6. For TT configurations see specific outline.

Weights - FMD-130	ANSI Pressure - 150#		ANSI Pressure - 300#		ANSI Pressure - 600#		ANSI Pressure - 900#	
	LBS	KGS	LBS	KGS	LBS	KGS	Please consult factory for weights	
Weight (+/- 5%)	16,765	7,605	18,110	8,215	23,225	10,535		
Weight with Crate (+/- 5%)	17,385	7,886	18,740	8,500	26,275	11,918		
Weight Filled w/ Water (+/- 5%)	19,765	8,965	21,060	9,553	26,055	11,818		

Energy Consumption - FMD-130			Motor Voltage / Phase Availability and Amperage Draw					
Motor Horsepower	208-230 VAC	220 VAC	240 VAC	380 VAC	400 VAC	440 VAC	460 VAC	480 VAC
	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase
	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
7.50	19	19	19	11	11	9.5	9.5	9.5



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