

## Flow MD Small Volume Prover Data Sheet FMD-130

### SERVICE, EXPERIENCE, INNOVATION & EXCELLENCE



Flow MD is the leader in compact meter prover technology. With an innovative and patented design, the FMD line of provers provides superior performance, design, and functionality. All FMD small volume 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 excellent choice for your meter proving application.

#### Flow Rates & Displaced Volumes:

FMD-130 Max Flow Ra	ntes*								
	BPH	GPM	M³H		nsure that you get the proper FMD Meter Prover for your application.				
FMD-130	18,500	13,000	2,900	<ul> <li>Please contact us to discuss your specific application and the optimal FMD Prover for y application. Meter type, brand, operating conditions, and fluid characteristics will affe prover sizing.</li> </ul>					
Displaced Volumes**									
	Gal	ons	Lite	ers*	**Please Note: Standard prover volume is in gallons, liters are optional.				
	Primary	Secondary	Primary	Secondary	Prover requires non-standard switchbar for liters. Alternate displaced volumes are available for liters, please contact factory for additional				
FMD-130	90	60	340	250	information.				

#### Included with Standard Prover Package:







**Electrical Connections** 

P.I.M Electronics Module

Vent Manifolds (2)

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

#### Field Installation Pictures:





# FMD Prover - Meter Compatability Coriolis - Turbine & Helical Turbine - Positive

Displacement – Ultrasonic										
FMD Prover 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.

#### FMD Prover Available Options

Prover Flange Configuration Options Electrical Panel Placement Options Transmitter Type Options

#### FMD Prover Spare Parts & Accessory Kits

Seal Kits & Spare Parts Pressure Relief Valves Insulation Jacketing Shaft Seal Monitor Kit Mass Proving/Denisty Kit Prover Validation Kit Spring Assist Kit Drain Kit Internal or External Leak Detector Kit Thermal Relief Kit Spectacle Blind Kit PDAQ Kit

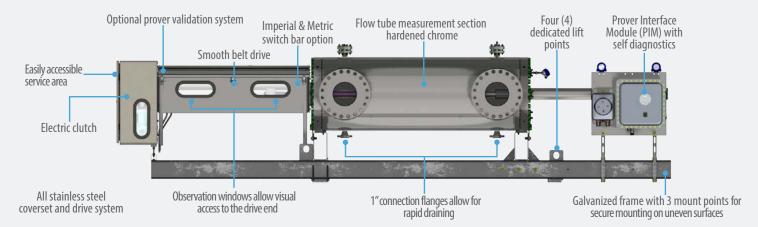
Approvals & Certifications							
ISO	9001:2015, 17025:2005						
EC	Mach Dir:2006/42/EC, EN 12100- 2:2003, ATEX Directive 94/9/EC, EN 13463-1:2009, EN 13463-5:2003, EN 60079-0, EN 60079-7, EN 60079-11						
CSA (US & Canada	Class 3218 06, Class 1 Div 1 Group D; Class 1 Div 2 Group D / Clutch & Brake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

Contact us today to discuss the benefits provided by FMD Small Volume Provers

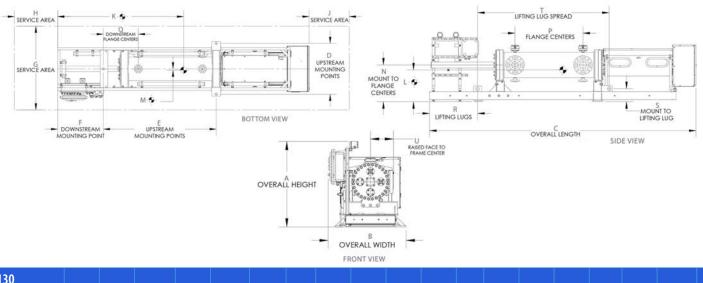
#### FMD-130 Features & Technical Specifications



#### **FMD Prover Features:**



#### FMD-130 Prover Dimensions:



FMD-130 Dimensions	A	В	С	D	E	F	G	H	J	K	L	М	N	Р	Q	R	S	т	U
Pressure Rating																			
150#	67.17	63.98	279.50	56	94.13	86.50	124	30	30	160	35	2	42.25	73	10.63	75.25	17.25	112	23
300#	67.38	63.98	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#	69.10	63.98	288.36	56	106	84.50	124	30	30	157	37	1	42.88	71.50	17.75	75.50	17.25	121	25.50

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. 7. Dimension "H" is the distance required to remove fully assembled piston assembly from the prover. Complete seal change may be done with piston not completely removed which requires 32" (FMD-007 thru FMD-130) and 42" (FMD-200 & FMD-200 EV50).

FMD-130 Weights		ght 5%)		vith Crate - 5%)	Weight F Water (-	illed w/ ⊢/- 5%)	Energy Consumption Motor Voltage / Phase Availa	bility & Amperage Draw		
ANSI Pressure – 150#	16,765	7,605	17,385	7,890	19,765	8,970	FMD-130	208–240 VAC 3 Phase	380-400 VAC 3 Phase	440-480 VAC 3 Phase
ANSI Pressure - 300#	18,110	8,215	18,740	8,500	21,060	9,555	Motor Horespower	50-60 Hz	50-60 Hz	50-60 Hz
ANSI Pressure – 600#	23,225	10,535	26,275	11,920	26,055	11,820	7.5	19	11	9.5



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