

# FMD Small Volume Unidirectional Captive Displacement Prover



## Continuously Improving Liquid Measurement Technology

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

Our provers are designed per API MPMS Chapter 4 standards to verify the accuracy of almost any liquid flow meter type, including Coriolis, Turbine, Helical Turbine, Positive Displacement, and Ultrasonic. Flow rate capabilities range from 142 BPH to 35,000 BPH.

FMDs Provers ensure accurate and repeatable proving performance and are compatible with most hydrocarbon products, such as crude, refined products, NGLs, cryogenic liquids, and hot bitumen.

Flow MDs patented prover design provides an accurate, repeatable, and fast measurement with minimal product displacement. In addition, our provers are easy to operate, with self-diagnostics and long-wearing seals made of proprietary PTFE blends.

The piston-poppet assembly design minimizes flow disturbances, and the all stainless steel drive end holds up to harsh field proving conditions.

Our unique and compact design utilizes pulse interpolation electronics, a patented drive end, a motor-driven piston with durable carbon fiber belts, a smooth bore cylinder, a poppet valve, and optical position sensors.

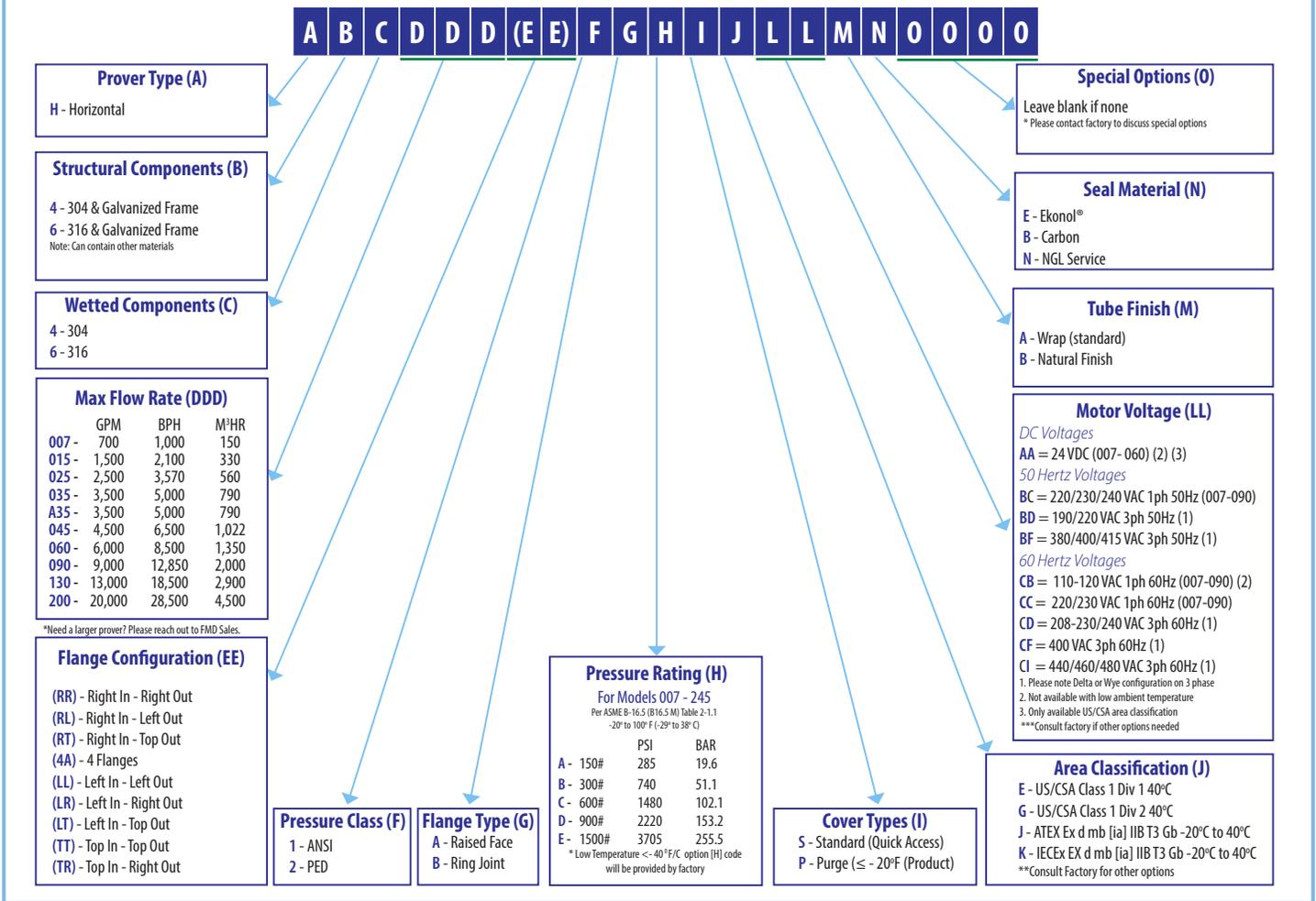
Contact us today to discuss your proving application

## Features:

- Uncertainty  $\leq 0.005\%$
- Repeatability  $\leq 0.02\%$  (ISO Cal Lab)
- Conforms to API MPMS Chapter 4 Standards
- Easily handles heavy crude and other hydrocarbon liquids
- All wetted parts Stainless / PTFE
- Smooth belt drive with clutch
- Metric switchbar option available
- 2" connections allow for rapid draining (FMD-025 to FMD-200)
- 2" vents for pressure and temperature verification (FMD-025 to FMD-200)
- Prover validation / self-test function
- Easily access common serviceable parts
- Observation windows for visual access to drive end
- Galvanized frame
- Prover validation / self-test function

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# FMD Prover Model Number Configuration



## FMD Max Prover Flow Rate and Displaced Volume

		FMD-007	FMD-015	FMD-025	FMD-035	FMD-045	FMD-060	FMD-090	FMD-130	FMD-200		
* Max Prover Flow Rates	BPH	1,000	2,100	3,570	5,000	6,400	8,500	12,850	18,500	28,500	Need a larger Prover?	
	GPM	700	1,500	2,500	3,500	4,500	6,000	9,000	13,000	20,000		
	M <sup>3</sup> /HR	150	330	560	790	1,022	1,350	2,000	2,900	4,500		
	*FMD Provers are compatible with most meter types, including Coriolis, Turbine, Helical Turbine, Positive Displacement, and Ultrasonic. Meter type, 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	Primary	5	10	20	25	35	50	80	90	140	Please contact FMD Sales
		Secondary	4	8	15	20	25	40	60	60	100	
	Liters	Primary	20	40	75	95	130	195	300	340	520	
		Secondary	16	30	60	75	100	150	225	250	400	
* Please note: Standard Prover volume is in gallons, liters are optional. Alternate displaced volumes are available for liters, please contact factory for additional information. Liters are not a direct conversion and indicative of seraphin can sizes.												



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