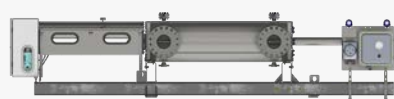




About the FMD Extended Volume Proving Line

The Extended Volume (EV) Prover Line provides innovative design enhancements to improve the proving process for manufactured pulse meters. The flow tube is elongated which provides a 50% increase in volume capacity, allowing for larger sample sizes and the extended flight times needed.



FMD-060EV



FMD-090EV



FMD-200EV

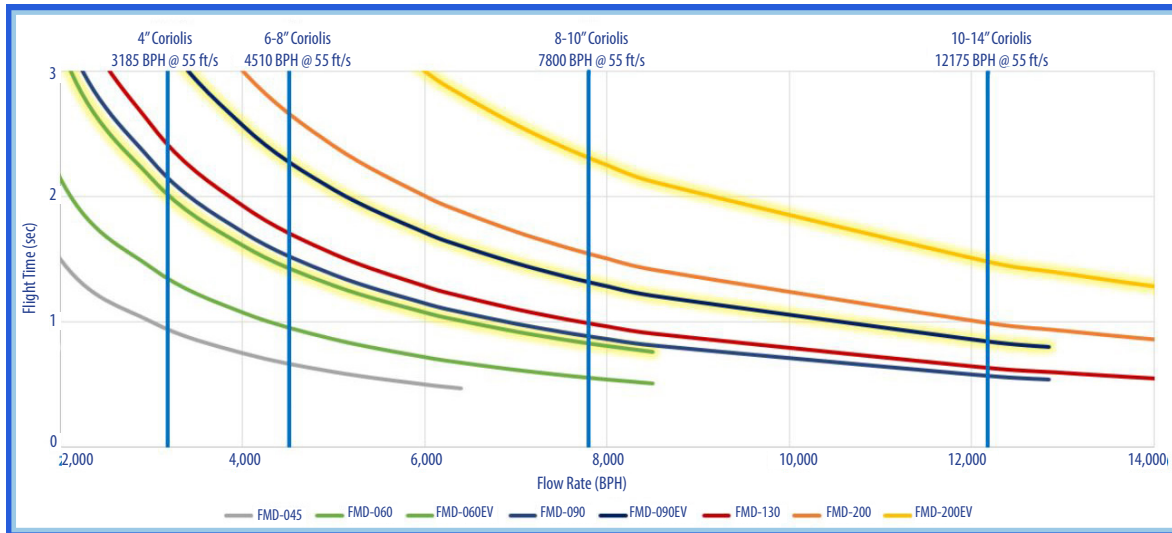
EV Prover Flow Rates & Displaced Volumes

FMD Prover Models	Flow Rates		Max Flow Rate @ 0.8 Sec Flight Time		Max Flow Rate @ 1.0 Sec Flight Time		Displaced Volumes			
							Gallons		Liters*	
	BPH	M ³ H	BPH	M ³ /HR	BPH	M ³ /HR	Primary	Secondary	Primary	Secondary
FMD-060	8,500	1,350	5,357	852	4,286	681	50	40	195	150
FMD-060EV	8,500	1,350	8,036	1,278	6,429	1,022	75	60	290	225
FMD-090	12,850	2,000	8,571	1,363	6,857	1,090	80	60	300	225
FMD-090EV	12,850	2,000	12,857	2,044	10,286	1,635	120	90	450	340
FMD-200	28,500	4,500	15,000	2,385	12,000	1,908	140	100	520	400
FMD-200EV	28,500	4,500	22,500	3,577	18,000	2,862	210	170	800	640

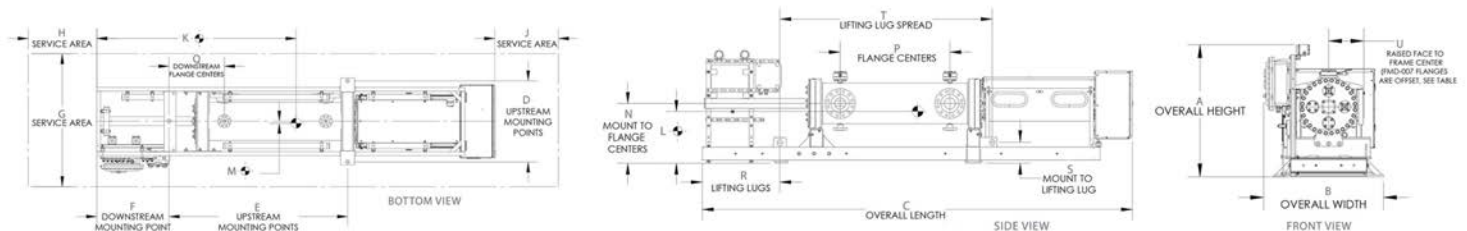
EV Prover Advantages

Meter Compatibility	Longer Flight Time	Performance & Repeatability	Cost Comparison
Pairs perfectly with the following flow meter types: > Ultrasonic > Coriolis > Helical Turbine	> Longer Run = Longer Flight Time > More pulses per proving run > Less proving cycles needed > Reduces the number of proving passes needed	> More Volume - Longer Flight Time > More Pulses - Better Repeatability > Used with multiple meter runs > Reduces flow disruption prior to proving	> Less expensive than upgrading to next prover size > Reduced wear and tear on prover > Longer seal life > Reduces overall proving time

When proving ultrasonic or Coriolis meters “Flight Time” is crucial. For helical turbine meters, pulses per pass or increased prover volume are key. The EV Line of Provers extends the already successful design to achieve longer flight times and more volume. Typically 0.8 to 1.0 second flight times are desired for ultrasonic and Coriolis meter, which the FMD-EV Prover line can achieve.



EV & Standard Dimensional Comparison



FMD Prover Model ANSI Rating	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
FMD-060 (150 to 600#)	53.14	58.21	236.75	51.50	100.50	49.25	120.0	30.0	30.0	120.0	30.0	1.0	34.38	68.00	24.75	49.00	11.57	106.99
FMD-060EV (150 to 600#)	53.14	58.21	288.73	51.50	117.83	66.58	120.0	30.0	30.0	140.0	30.0	1.0	34.38	85.33	24.75	66.33	11.57	124.02
FMD-090 (150 to 600#)	59.62	58.21	236.75	51.50	100.50	49.25	120.0	30.0	30.0	114.0	34.0	2.0	37.75	65.00	25.13	49.00	14.50	106.78
FMD-090EV (150 to 600#)	59.62	58.21	288.00	51.50	120.00	64.00	124.0	30.0	30.0	139.0	34.0	2.0	37.75	82.23	25.13	49.00	14.50	126.80
FMD-130 (150#)	67.17	63.98	279.50	56.00	94.13	86.50	124.0	30.0	30.0	160.0	35.0	2.0	42.25	73.00	10.63	75.25	17.25	112.00
FMD-130 (300#)	67.38	63.98	279.50	56.00	98.25	82.38	124.0	30.0	30.0	155.0	35.0	1.0	42.25	73.00	12.63	71.38	17.25	166.25
FMD-130 (600#)	69.10	63.98	288.38	56.00	106.00	84.50	132.0	30.0	30.0	157.0	37.0	1.0	42.88	71.50	17.75	75.50	17.25	121.00
FMD-200 (150#)	73.59	71.98	293.75	64.00	108.13	86.50	132.0	30.0	30.0	152.0	39.0	1.0	45.38	80.00	14.13	75.63	15.75	126.00
FMD-200 (300#)	73.84	71.98	298.50	64.00	115.13	84.50	132.0	30.0	30.0	162.0	39.0	2.0	45.50	80.00	18.50	75.50	17.25	131.00
FMD-200 (600#)	76.26	71.98	307.50	64.00	121.13	87.50	132.0	30.0	30.0	163.0	42.0	2.0	46.75	79.50	21.75	81.25	17.63	134.38
FMD-200EV (150#)	73.59	71.98	332.75	64.00	121.13	99.50	132.0	30.0	30.0	159.0	39.0	1.0	45.38	93.00	14.13	88.63	15.75	139.00
FMD-200EV (300#)	73.84	71.98	337.50	64.00	128.13	97.50	132.0	30.0	30.0	169.0	39.0	2.0	45.50	93.00	18.50	88.50	17.25	144.00
FMD-200EV (600#)	76.26	71.98	346.50	64.00	134.13	100.5	132.0	30.0	30.0	169.0	42.0	2.0	46.75	92.50	21.75	94.25	17.63	147.38

Legend : EV Prover Models Dimensional Variation Between FMD EV & Standard Models

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