



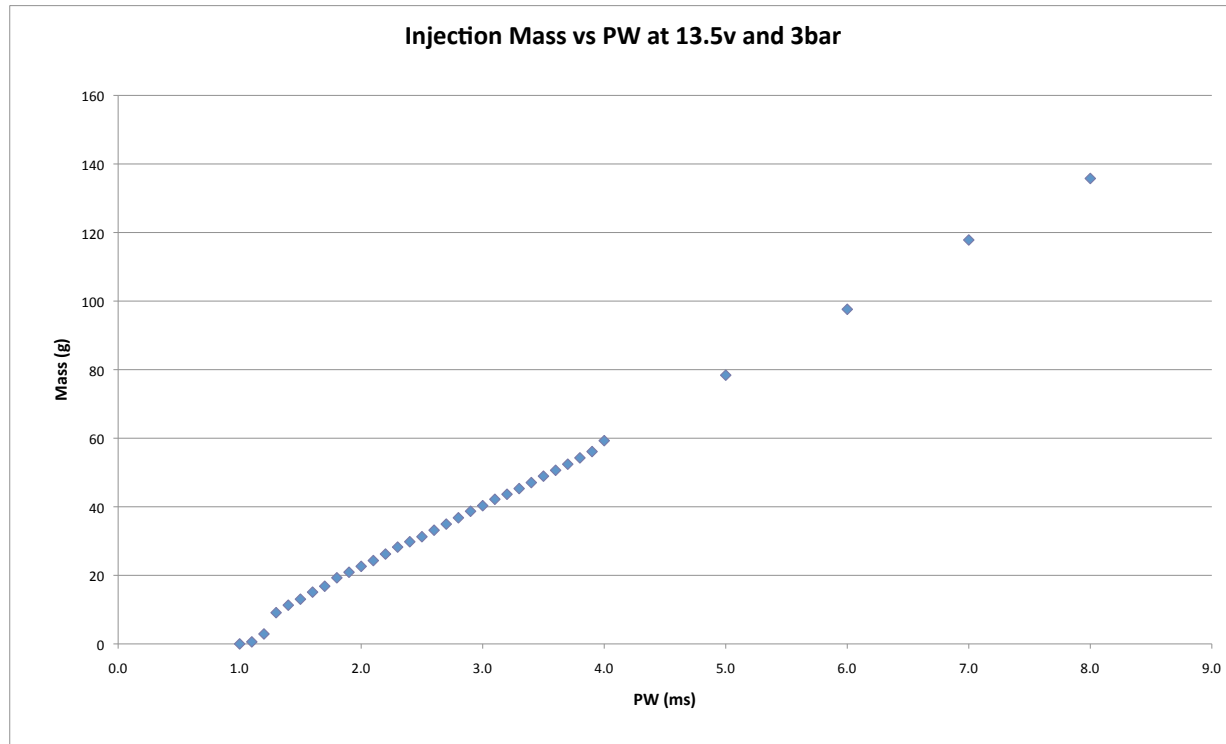
# Fuel Injector Characterization Summary

DW PN: 16m-XX-1500-X

Pulsed Flow Data (3bar)				Linearity
Pulse Width (ms)	Volumetric (cc/shot)	Gravimetric (mg/shot)	% Mass Deviation	
1.0	0.0000	0.000	0.0%	NON LINEAR RANGE
1.1	0.0008	0.593	-78.1%	
1.2	0.0039	2.902	-37.4%	
1.3	0.0122	9.112	38.6%	
1.4	0.0151	11.296	32.7%	
1.5	0.0174	13.043	24.9%	
1.6	0.0202	15.103	22.0%	
1.7	0.0225	16.819	17.5%	
1.8	0.0258	19.284	18.6%	
1.9	0.0279	20.907	14.9%	
2.0	0.0302	22.623	12.4%	
2.1	0.0325	24.308	10.2%	
2.2	0.0350	26.212	9.2%	
2.3	0.0377	28.240	8.9%	
2.4	0.0398	29.800	6.9%	
2.5	0.0418	31.267	4.9%	LINEAR RANGE
2.6	0.0443	33.170	4.5%	
2.7	0.0467	34.949	3.8%	
2.8	0.0491	36.790	3.3%	
2.9	0.0517	38.693	3.0%	
3.0	0.0538	40.316	2.1%	
3.1	0.0563	42.188	1.9%	
3.2	0.0583	43.655	0.7%	
3.3	0.0605	45.308	0.0%	
3.4	0.0628	47.056	-0.4%	
3.5	0.0653	48.928	-0.5%	
3.6	0.0676	50.644	-0.9%	
3.7	0.0700	52.423	-1.2%	
3.8	0.0725	54.264	-1.3%	
3.9	0.0749	56.105	-1.4%	
4.0	0.0792	59.288	0.8%	
5.0	0.1047	78.385	0.2%	
6.0	0.1303	97.607	0.0%	
7.0	0.1573	117.827	0.8%	
8.0	0.1813	135.769	-0.4%	
Linear Range Slope		1542		
Non-Linear Range Slope		1710		

Static Flow Data					
Differential Pressure			Flow		
Bar	kPa	PSI	cc/min	lb/hr	g/s
2	200	29.0	1245	118.6	15.54
3	300	43.5	1530	145.7	19.09
4	400	58.0	1790	170.4	22.34
5	500	72.5	2062	196.4	25.73

Battery Offset					
	8 volts	10 volts	12 volts	14 volts	16 volts
2bar	1.825	1.401	1.037	0.733	0.489
3bar	2.188	1.599	1.137	0.800	0.591
4bar	2.654	1.920	1.345	0.929	0.672
5bar	3.336	2.362	1.624	1.121	0.855



**NOTES**

All mass values (gravimetric) are calculated for pump gas using SG of 0.749  
 Application specific calibration summaries are also available (visit website or inquire with tech support)  
 Data on calibration summaries may vary slightly from data on this sheet due to in-car optimization  
 Slopes are expressed in cc/min