



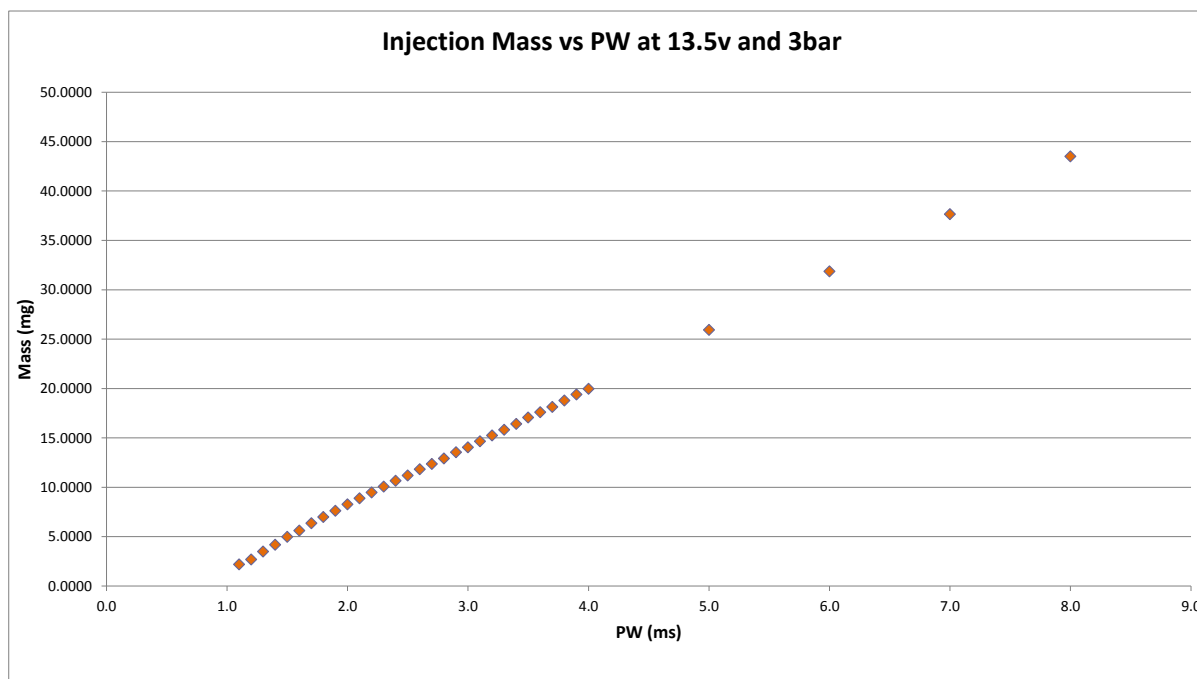
Fuel Injector Characterization Summary

DW PN: 13U-XX-0042-X, 13U-XX-0450-X, Magnuson PN: 84-12-41-008

Pulsed Flow Data (3bar, 13.5v)				Linearity
Pulse Width (ms)	Volumetric (cc/shot)	Gravimetric (mg/shot)	% Mass Deviation	
1.0	Below limits of detection			NON LINEAR RANGE
1.1	0.0029	2.184	-23.74%	
1.2	0.0036	2.684	-22.31%	
1.3	0.0047	3.495	-13.58%	
1.4	0.0056	4.181	-9.76%	
1.5	0.0067	4.993	-4.42%	
1.6	0.0075	5.617	-3.39%	
1.7	0.0085	6.366	-0.59%	
1.8	0.0093	6.990	-0.05%	LINEAR RANGE
1.9	0.0102	7.614	0.40%	
2.0	0.0110	8.269	1.17%	
2.1	0.0119	8.893	1.48%	
2.2	0.0127	9.486	1.42%	
2.3	0.0135	10.079	1.37%	
2.4	0.0143	10.672	1.32%	
2.5	0.0150	11.202	0.72%	
2.6	0.0158	11.826	0.97%	
2.7	0.0165	12.357	0.44%	
2.8	0.0173	12.919	0.20%	
2.9	0.0181	13.543	0.45%	
3.0	0.0188	14.042	-0.22%	
3.1	0.0196	14.666	0.03%	
3.2	0.0204	15.259	0.04%	
3.3	0.0211	15.821	-0.14%	
3.4	0.0219	16.413	-0.11%	
3.5	0.0228	17.069	0.28%	
3.6	0.0235	17.599	-0.07%	
3.7	0.0242	18.130	-0.40%	
3.8	0.0251	18.785	-0.03%	
3.9	0.0259	19.409	0.14%	
4.0	0.0267	19.971	0.00%	
5.0	0.0346	25.931	0.23%	
6.0	0.0425	31.859	0.28%	
7.0	0.0503	37.663	-0.01%	
8.0	0.0581	43.499	-0.16%	
SLOPE (cc/min)		471		

Static Flow Data					
Differential Pressure			Flow		
Bar	kPa	PSI	cc/min	lb/hr	g/s
2	200	29.0	389	37.0	4.86
3	300	43.5	473	45.0	5.90
4	400	58.0	553	52.7	6.90
5	500	72.5	631	60.1	7.88

Battery Offset					
	8 volts	10 volts	12 volts	14 volts	16 volts
2bar	1.462	1.031	0.677	0.400	0.199
3bar	1.627	1.141	0.757	0.477	0.300
4bar	1.761	1.275	0.882	0.581	0.374
5bar	1.894	1.409	1.006	0.685	0.447



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

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