



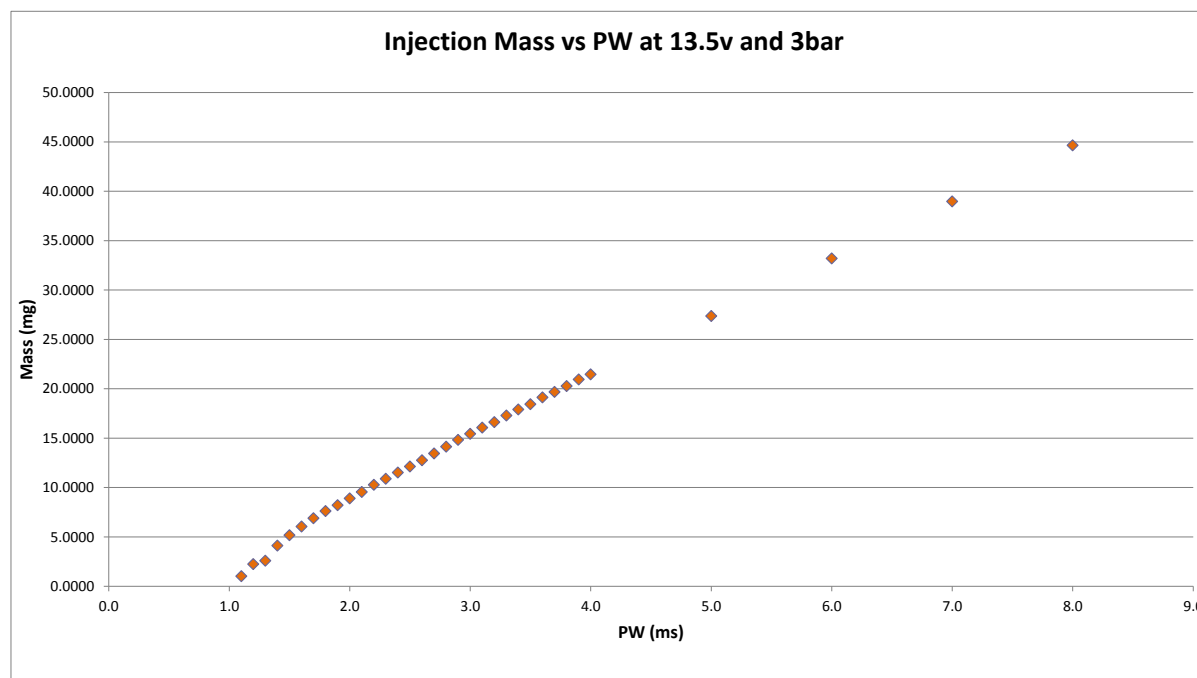
## Fuel Injector Characterization Summary

DW PN: 21S-XX-0440-X

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	0.0014	1.030	-76.87%	
1.2	0.0030	2.247	-55.39%	
1.3	0.0035	2.590	-53.93%	
1.4	0.0055	4.119	-33.63%	
1.5	0.0069	5.180	-23.73%	
1.6	0.0081	6.054	-17.93%	
1.7	0.0092	6.896	-13.37%	
1.8	0.0102	7.614	-10.90%	
1.9	0.0110	8.207	-10.12%	
2.0	0.0119	8.893	-8.46%	
2.1	0.0128	9.548	-7.30%	
2.2	0.0137	10.266	-5.68%	
2.3	0.0145	10.890	-5.05%	
2.4	0.0154	11.514	-4.48%	
2.5	0.0162	12.138	-3.96%	
2.6	0.0170	12.763	-3.49%	
2.7	0.0180	13.449	-2.61%	
2.8	0.0189	14.135	-1.79%	
2.9	0.0198	14.822	-1.05%	
3.0	0.0206	15.446	-0.75%	
3.1	0.0215	16.070	-0.48%	
3.2	0.0222	16.632	-0.60%	
3.3	0.0231	17.287	-0.18%	
3.4	0.0239	17.911	0.05%	
3.5	0.0246	18.442	-0.25%	
3.6	0.0255	19.128	0.29%	
3.7	0.0263	19.690	0.17%	
3.8	0.0271	20.283	0.20%	
3.9	0.0280	20.938	0.53%	
4.0	0.0287	21.468	0.27%	
5.0	0.0365	27.366	0.39%	
6.0	0.0443	33.201	0.28%	
7.0	0.0520	38.974	0.05%	
8.0	0.0596	44.653	-0.34%	
SLOPE (cc/min)		465		

Static Flow Data					
Differential Pressure			Flow		
Bar	kPa	PSI	cc/min	lb/hr	g/s
2	200	29.0	394	37.5	4.92
3	300	43.5	474	45.2	5.92
4	400	58.0	555	52.9	6.93
5	500	72.5	623	59.4	7.78

Battery Offset					
	8 volts	10 volts	12 volts	14 volts	16 volts
2bar	1.150	0.799	0.515	0.300	0.152
3bar	1.191	0.834	0.544	0.320	0.164
4bar	1.288	0.889	0.572	0.338	0.186
5bar	1.513	1.032	0.657	0.388	0.226



### 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

rev 4/18/2018