



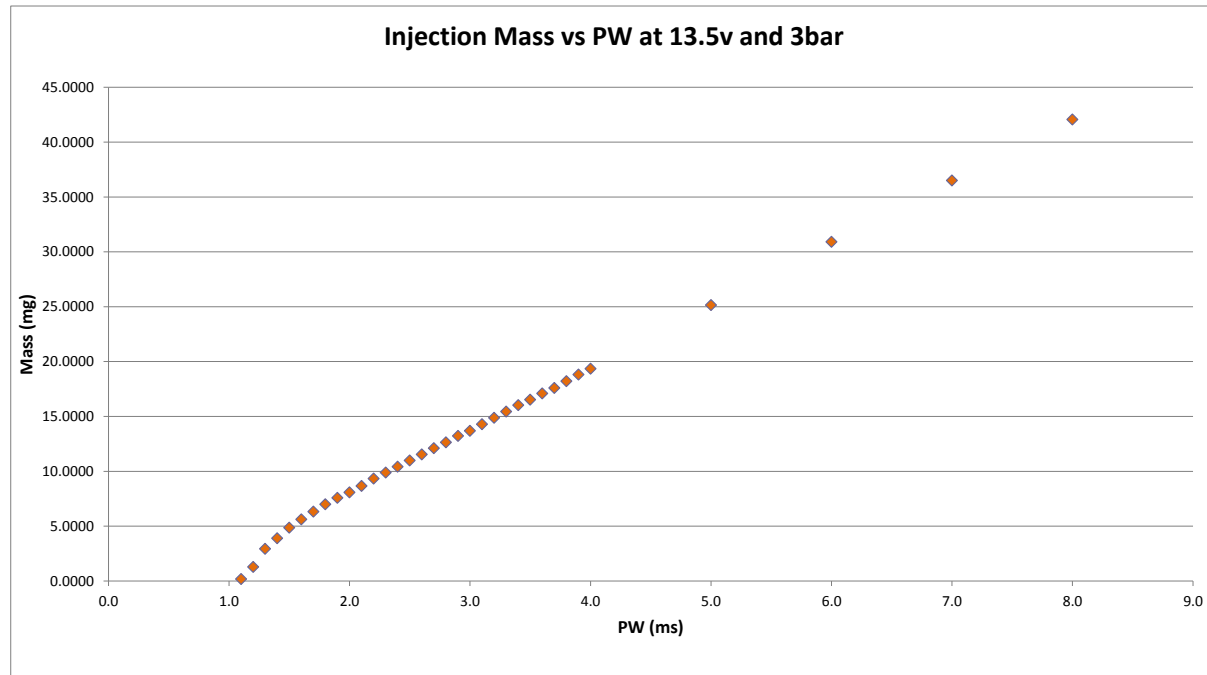
## Fuel Injector Characterization Summary

DW PN: 18U-XX-0042-X, 18U-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	0.0003	0.187	-93.54%	
1.2	0.0017	1.279	-63.08%	
1.3	0.0039	2.933	-27.30%	
1.4	0.0052	3.901	-15.27%	
1.5	0.0065	4.868	-5.90%	
1.6	0.0075	5.617	-2.18%	
1.7	0.0085	6.334	0.37%	
1.8	0.0093	6.990	1.59%	LINEAR RANGE
1.9	0.0101	7.583	1.79%	
2.0	0.0108	8.082	0.79%	
2.1	0.0116	8.675	1.01%	
2.2	0.0125	9.330	1.89%	
2.3	0.0132	9.892	1.71%	
2.4	0.0139	10.422	1.24%	
2.5	0.0147	10.984	1.10%	
2.6	0.0154	11.546	0.98%	
2.7	0.0162	12.107	0.87%	
2.8	0.0169	12.638	0.53%	
2.9	0.0177	13.231	0.68%	
3.0	0.0183	13.699	-0.08%	
3.1	0.0191	14.292	0.09%	
3.2	0.0199	14.884	0.24%	
3.3	0.0206	15.446	0.19%	
3.4	0.0214	16.039	0.33%	
3.5	0.0221	16.538	-0.10%	
3.6	0.0228	17.100	-0.14%	
3.7	0.0235	17.599	-0.53%	
3.8	0.0243	18.223	-0.22%	
3.9	0.0251	18.816	-0.08%	
4.0	0.0258	19.347	-0.28%	
5.0	0.0336	25.151	0.23%	
6.0	0.0413	30.923	0.45%	
7.0	0.0488	36.509	0.09%	
8.0	0.0562	42.063	-0.25%	
SLOPE (cc/min)		455		

Static Flow Data					
Differential Pressure			Flow		
Bar	kPa	PSI	cc/min	lb/hr	g/s
2	200	29.0	379	36.0	4.72
3	300	43.5	462	44.0	5.77
4	400	58.0	537	51.2	6.71
5	500	72.5	606	57.7	7.57

Battery Offset					
	8 volts	10 volts	12 volts	14 volts	16 volts
2bar	1.635	1.072	0.641	0.340	0.171
3bar	1.727	1.176	0.742	0.423	0.220
4bar	1.959	1.342	0.856	0.502	0.278
5bar	2.293	1.551	0.974	0.560	0.310



### 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