



Rig Mass Flow Rate Calculations

Please Enter Parameters in highlighted boxes below

Engine Data File		
Ambient Conditions		
Air Temperature	11.4	[C]
Atmospheric Pressure	970	[mBar]
Air Humidity	69	[%]
Viper Engine Parameters		
Engine Air Intake Mass Flow	18	[Kg/s]
Butane Flow Rate	1690	[Ltr/h]
Engine Speed	12190	[RPM]
ETC	650	[C]
Gas Delivery System Data File		
Gas Delivery System		
Mixed Gas (Fuel) Mass Flow rate	0.04	[Kg/s]
Oxygen Mass Flow rate	0.15	[Kg/s]

Please do not change anything in this box

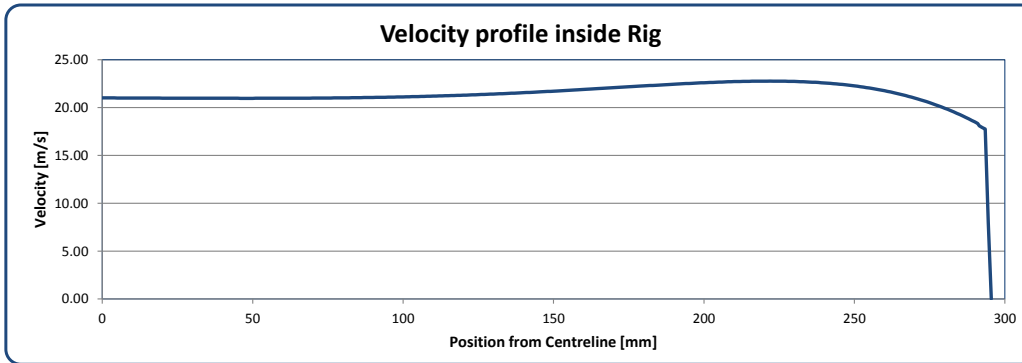
Test Date and Time = 05.09.2014 13:16:36.8

Calculated Parameters		
Air density	1.183897	[Kg/m ³]
Liquid Butane density	584	[Kg/m ³]
Butane mass Flow rate	0.274156	[Kg/s]
Air Fuel Ratio	78.16209	[]
Calculated Exhaust gas properties (Reaction Engines)		
Exhaust products density	0.389	[Kg/m ³]
Pitot Traverse Results		
Rig Gas flow rate - Integrated	2.278206	[Kg/s]
Total Rig Mass flow	2.468206	[Kg/s]
Rig Gas Temperature as read from TC 8?		
Gas Temperature	505	[C]

Bruce Ewan to fill in

Note

Manual for viper 201 gives figures for fuel flow rate to be as follows at maximum power					
Fuel Flow	2035	lb/hr	to	2920	lb/hr
	925	Kg/hr		1327.273	Kg/hr
	1156.25	ltr/hr		1659.091	ltr/hr



Data Acquisition Parameters

Sampling Rate	1000	[Hz]
No of samples recorded	100	Samples
Averaged samples sampling rate	10	[Hz]
Pitot Traverse speed	7	[mm/s]
Distance Travelled every 0.1sec	0.7	[mm]

Averaged Pitot dp

0.887749666 Average Vel 21.3325896 [m/s]

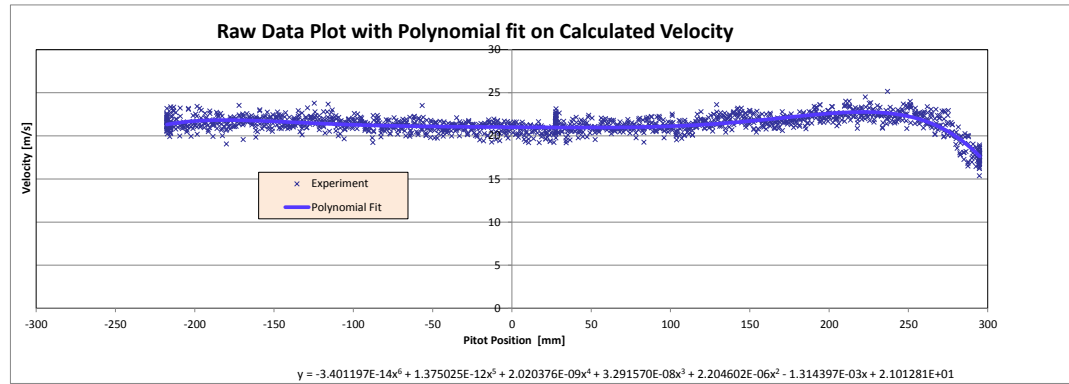
Raw Data from CSV File

Date and time [dd:mm:yyyy hh:mm:ss.ms]	Pitot Position from rig centre [mm]	TC11 - Pitot [deg C]	Pitot dP [mBar]
05.09.2014 13:16:36.8	-215.17	504.7	0.8465
05.09.2014 13:16:36.9	-215.17	504.6	0.9094
05.09.2014 13:16:37.0	-215.18	504.8	1.0023
05.09.2014 13:16:37.1	-215.16	504.8	0.9159
05.09.2014 13:16:37.2	-215.14	504.7	0.8506
05.09.2014 13:16:37.3	-215.16	504.7	0.8794
05.09.2014 13:16:37.4	-215.15	504.8	0.8863
05.09.2014 13:16:37.5	-215.14	504.9	0.8875
05.09.2014 13:16:37.6	-215.17	504.7	0.8953
05.09.2014 13:16:37.7	-215.21	504.7	0.8408
05.09.2014 13:16:37.8	-215.18	504.8	0.8827
05.09.2014 13:16:37.9	-215.14	504.8	0.8555
05.09.2014 13:16:38.0	-215.18	504.7	0.8004
05.09.2014 13:16:38.1	-215.16	504.6	0.8006
05.09.2014 13:16:38.2	-215.15	504.8	0.8617
05.09.2014 13:16:38.3	-215.18	504.8	0.8121
05.09.2014 13:16:38.4	-215.08	504.7	1.0624
05.09.2014 13:16:38.5	-214.5	504.6	1.044
05.09.2014 13:16:38.6	-214.55	504.8	0.9685
05.09.2014 13:16:38.7	-214.53	504.7	0.9565
05.09.2014 13:16:38.8	-212.99	504.6	0.8593
05.09.2014 13:16:38.9	-211.89	504.7	0.9357
05.09.2014 13:16:39.0	-211.96	504.8	1.0026
05.09.2014 13:16:39.1	-211.95	504.7	0.8406
05.09.2014 13:16:39.2	-208.98	504.7	0.8694
05.09.2014 13:16:39.3	-209.13	504.8	1.0501
05.09.2014 13:16:39.4	-209.06	504.9	0.9655
05.09.2014 13:16:39.5	-207.13	504.8	0.9101
05.09.2014 13:16:39.6	-206.49	504.8	0.8569
05.09.2014 13:16:39.7	-206.51	505	0.891
05.09.2014 13:16:39.8	-206.51	505.1	0.8956
05.09.2014 13:16:39.9	-204.35	505	0.8629
05.09.2014 13:16:40.0	-203.98	505.1	1.0456
05.09.2014 13:16:40.1	-203.98	505.4	1.0358
05.09.2014 13:16:40.2	-202.35	505.5	0.8945
05.09.2014 13:16:40.3	-200.94	505.4	0.9142
05.09.2014 13:16:40.4	-201.07	505.5	0.8457
05.09.2014 13:16:40.5	-201.03	505.7	0.9723
05.09.2014 13:16:40.6	-199.39	505.7	0.9869
05.09.2014 13:16:40.7	-198.47	505.6	1.0672
05.09.2014 13:16:40.8	-198.54	505.6	0.862
05.09.2014 13:16:40.9	-198.41	505.8	0.7934
05.09.2014 13:16:41.0	-195.84	505.6	1.0256
05.09.2014 13:16:41.1	-196.04	505.5	0.8676
05.09.2014 13:16:41.2	-195.99	505.7	0.9474
05.09.2014 13:16:41.3	-193.56	505.8	0.8892
05.09.2014 13:16:41.4	-193.05	505.6	0.9431
05.09.2014 13:16:41.5	-193.09	505.6	0.9065
05.09.2014 13:16:41.6	-192.63	505.7	0.9523
05.09.2014 13:16:41.7	-190.36	505.8	0.9931
05.09.2014 13:16:41.8	-190.57	505.6	0.9279
05.09.2014 13:16:41.9	-190.53	505.6	1.0189
05.09.2014 13:16:42.0	-188.96	505.8	0.8868
05.09.2014 13:16:42.1	-187.89	505.9	0.883
05.09.2014 13:16:42.2	-187.97	505.7	0.8968
05.09.2014 13:16:42.3	-187.23	505.7	0.9269
05.09.2014 13:16:42.4	-185.26	505.9	0.9631
05.09.2014 13:16:42.5	-185.46	505.9	0.9817
05.09.2014 13:16:42.6	-185.45	505.7	0.9897
05.09.2014 13:16:42.7	-184.43	505.8	0.8996

505.482888

Calculated Velocity [m/s]
20.8618913
21.6230858
22.7006902
21.7002245
20.9123523
21.2634352
21.3466914
21.3611376
21.4548009
20.7915348
21.303294
20.9725001
20.2858746
20.2884089
21.0483591
20.4336031
23.3713731
23.1681015
22.3146464
22.175973
21.0190268
21.9335289
22.7040873
20.7890618
21.1421921
23.2356875
22.280059
21.6314063
20.9896535
21.4032167
21.4583952
21.0630099
23.185848
23.0769363
21.4452133
21.6800763
20.852031
22.3583804
22.5256209
23.4241104
21.0520227
20.1969735
22.9630305
21.1202945
22.0702314
21.3815864
22.020089
21.5885812
22.127232
22.5962665
21.8419186
22.8879016
21.3527118
21.3069138
21.4727663
21.8301459
22.2523503
22.4661985
22.5575528
21.5062614

Raw Data Plot with Polynomial fit on Calculated Velocity



05.09.2014 13:16:42.8	-182.71	505.9	0.9671	22.2985123
05.09.2014 13:16:42.9	-182.9	505.8	0.8468	20.8655877
05.09.2014 13:16:43.0	-182.53	505.7	0.7797	20.021839
05.09.2014 13:16:43.1	-179.81	505.8	0.8372	20.7469761
05.09.2014 13:16:43.2	-180.01	505.8	0.7072	19.0682713
05.09.2014 13:16:43.3	-180.01	505.6	0.8931	21.4284245
05.09.2014 13:16:43.4	-179.46	505.6	0.886	21.3430783
05.09.2014 13:16:43.5	-177.24	505.6	0.9402	21.9862074
05.09.2014 13:16:43.6	-177.47	505.7	0.9566	22.1771322
05.09.2014 13:16:43.7	-177.45	505.5	0.9202	21.7511043
05.09.2014 13:16:43.8	-175.71	505.5	0.864	21.0764309
05.09.2014 13:16:43.9	-174.86	505.7	0.8639	21.0752111
05.09.2014 13:16:44.0	-174.89	505.7	0.8813	21.2863933
05.09.2014 13:16:44.1	-173.87	505.6	0.8673	21.1166426
05.09.2014 13:16:44.2	-171.79	505.7	0.9682	22.3111901
05.09.2014 13:16:44.3	-172.01	505.9	1.0778	23.5401533
05.09.2014 13:16:44.4	-171.96	505.9	0.9784	22.4284065
05.09.2014 13:16:44.5	-170.77	505.7	0.9409	21.9943905
05.09.2014 13:16:44.6	-169.32	505.8	0.8954	21.4559991
05.09.2014 13:16:44.7	-169.46	506	0.7459	19.5830576
05.09.2014 13:16:44.8	-169.44	505.9	0.9701	22.3330711
05.09.2014 13:16:44.9	-166.75	505.9	0.9182	21.7274541
05.09.2014 13:16:45.0	-166.53	505.9	0.9369	21.9475889
05.09.2014 13:16:45.1	-166.47	505.9	0.9061	21.5838176
05.09.2014 13:16:45.2	-165.86	505.8	0.9563	22.1736544
05.09.2014 13:16:45.3	-163.77	505.7	0.9248	21.8054025
05.09.2014 13:16:45.4	-163.99	505.8	0.8796	21.265853
05.09.2014 13:16:45.5	-163.91	505.9	0.8975	21.481145
05.09.2014 13:16:45.6	-161.33	505.7	0.9598	22.2141945
05.09.2014 13:16:45.7	-161.46	505.6	0.7664	19.8503398
05.09.2014 13:16:45.8	-161.42	505.8	0.8296	20.6525922
05.09.2014 13:16:45.9	-160.39	505.9	0.8153	20.4738218
05.09.2014 13:16:46.0	-158.7	505.6	0.9402	21.9862074
05.09.2014 13:16:46.1	-158.91	505.6	1.0317	23.0312183
05.09.2014 13:16:46.2	-158.92	505.9	0.8886	21.3743714
05.09.2014 13:16:46.3	-156.31	505.8	0.9052	21.5730957
05.09.2014 13:16:46.4	-155.99	505.6	0.8677	21.1215116
05.09.2014 13:16:46.5	-156.03	505.6	0.9589	22.203777
05.09.2014 13:16:46.6	-155.41	505.6	0.9679	22.3077332
05.09.2014 13:16:46.7	-153.19	505.5	0.9096	21.6254634
05.09.2014 13:16:46.8	-153.47	505.3	0.8619	21.0508016
05.09.2014 13:16:46.9	-153.44	505.4	0.8384	20.7618396
05.09.2014 13:16:47.0	-152.66	505.5	0.9559	22.1690166
05.09.2014 13:16:47.1	-150.66	505.3	0.894	21.4392188
05.09.2014 13:16:47.2	-150.98	505.3	0.9228	21.7818112
05.09.2014 13:16:47.3	-150.67	505.5	0.9814	22.4627655
05.09.2014 13:16:47.4	-147.81	505.5	1.0092	22.7786939
05.09.2014 13:16:47.5	-148.01	505.4	0.9462	22.0562497
05.09.2014 13:16:47.6	-147.97	505.3	0.8813	21.2863933
05.09.2014 13:16:47.7	-146.79	505.6	0.8483	20.8840599
05.09.2014 13:16:47.8	-145.28	505.7	0.9787	22.4318448
05.09.2014 13:16:47.9	-145.46	505.4	0.8446	20.8384655
05.09.2014 13:16:48.0	-144.98	505.4	0.8687	21.1336791
05.09.2014 13:16:48.1	-142.73	505.5	1.0008	22.6836974
05.09.2014 13:16:48.2	-142.88	505.5	0.8877	21.3635444
05.09.2014 13:16:48.3	-142.86	505.2	0.8587	21.0116873
05.09.2014 13:16:48.4	-141.29	505.2	0.8453	20.8470991
05.09.2014 13:16:48.5	-140.26	505.3	0.8535	20.9479708
05.09.2014 13:16:48.6	-140.35	505.2	0.8833	21.310533
05.09.2014 13:16:48.7	-140.26	505.1	0.9551	22.1597379
05.09.2014 13:16:48.8	-137.69	505.1	0.915	21.6895601
05.09.2014 13:16:48.9	-137.81	505.2	0.8827	21.303294
05.09.2014 13:16:49.0	-137.79	505.1	0.8701	21.1507018
05.09.2014 13:16:49.1	-136.57	505	0.876	21.2222903
05.09.2014 13:16:49.2	-134.69	505.1	0.9632	22.2535055
05.09.2014 13:16:49.3	-134.9	505.1	0.8896	21.386395
05.09.2014 13:16:49.4	-134.9	504.8	0.892	21.4152241
05.09.2014 13:16:49.5	-133.55	504.8	0.8164	20.4876287
05.09.2014 13:16:49.6	-132.26	504.9	0.8495	20.8988259
05.09.2014 13:16:49.7	-132.34	504.9	0.7879	20.1268471
05.09.2014 13:16:49.8	-132.32	504.6	0.9977	22.6485385
05.09.2014 13:16:49.9	-129.84	504.4	0.956	22.1701761

05.09.2014 13:16:50.0	-129.83	504.6	0.8828	21.3045007
05.09.2014 13:16:50.1	-129.77	504.5	0.9434	22.023591
05.09.2014 13:16:50.2	-128.86	504.2	1.051	23.2456425
05.09.2014 13:16:50.3	-126.68	504.2	0.9609	22.2269204
05.09.2014 13:16:50.4	-126.95	504.3	0.9624	22.2442621
05.09.2014 13:16:50.5	-126.86	504.2	0.9501	22.1016581
05.09.2014 13:16:50.6	-124.58	504.1	1.1012	23.79432
05.09.2014 13:16:50.7	-123.97	504.1	0.8854	21.3358503
05.09.2014 13:16:50.8	-123.94	504.2	0.9167	21.7096995
05.09.2014 13:16:50.9	-123.6	504.1	0.9726	22.3618294
05.09.2014 13:16:51.0	-121.28	503.9	0.8612	21.0422515
05.09.2014 13:16:51.1	-121.48	503.9	0.9709	22.3422778
05.09.2014 13:16:51.2	-121.42	503.9	0.8353	20.7234204
05.09.2014 13:16:51.3	-120.88	503.7	0.8797	21.2670618
05.09.2014 13:16:51.4	-118.66	503.6	0.8628	21.0617894
05.09.2014 13:16:51.5	-118.92	503.7	0.9176	21.720354
05.09.2014 13:16:51.6	-118.87	503.7	0.9425	22.0130833
05.09.2014 13:16:51.7	-115.84	503.5	1.0898	23.6708361
05.09.2014 13:16:51.8	-116.03	503.5	0.9559	22.1690166
05.09.2014 13:16:51.9	-116.03	503.7	0.9041	21.5599839
05.09.2014 13:16:52.0	-115.01	503.7	0.8205	20.5390092
05.09.2014 13:16:52.1	-113.24	503.5	0.9397	21.9803605
05.09.2014 13:16:52.2	-113.49	503.5	0.9047	21.5671368
05.09.2014 13:16:52.3	-113.13	503.7	0.9343	21.9171143
05.09.2014 13:16:52.4	-110.7	503.6	0.86	21.0275862
05.09.2014 13:16:52.5	-110.92	503.4	0.8945	21.4452133
05.09.2014 13:16:52.6	-110.94	503.4	0.8238	20.5802711
05.09.2014 13:16:52.7	-109.5	503.4	0.7778	19.9974291
05.09.2014 13:16:52.8	-108.23	503.3	0.7963	20.2338513
05.09.2014 13:16:52.9	-108.37	503.2	0.9119	21.6527871
05.09.2014 13:16:53.0	-107.7	503.3	0.9215	21.7664632
05.09.2014 13:16:53.1	-105.57	503.3	0.9117	21.6504125
05.09.2014 13:16:53.2	-105.81	503.2	0.8722	21.1762102
05.09.2014 13:16:53.3	-105.79	503.1	0.7513	19.6538163
05.09.2014 13:16:53.4	-104.04	503.3	0.8578	21.0006733
05.09.2014 13:16:53.5	-103.23	503.3	0.899	21.4990883
05.09.2014 13:16:53.6	-103.24	503.1	0.8647	21.084967
05.09.2014 13:16:53.7	-103.05	502.9	0.9301	21.8677963
05.09.2014 13:16:53.8	-100.58	503.1	0.8656	21.0959371
05.09.2014 13:16:53.9	-100.7	503.1	0.8926	21.4224254
05.09.2014 13:16:54.0	-100.68	502.9	0.8846	21.3262092
05.09.2014 13:16:54.1	-99.32	503	0.9939	22.605366
05.09.2014 13:16:54.2	-97.66	503.2	0.8448	20.8409326
05.09.2014 13:16:54.3	-97.81	503.1	0.8859	21.3418738
05.09.2014 13:16:54.4	-97.81	503	0.8935	21.4332227
05.09.2014 13:16:54.5	-95.37	503	0.9559	22.1690166
05.09.2014 13:16:54.6	-95.25	503.2	0.9343	21.9171143
05.09.2014 13:16:54.7	-95.24	503.2	0.9098	21.6278408
05.09.2014 13:16:54.8	-93.56	503.1	0.9004	21.5158219
05.09.2014 13:16:54.9	-92.66	503.3	0.8281	20.6339127
05.09.2014 13:16:55.0	-92.77	503.4	0.8961	21.4643843
05.09.2014 13:16:55.1	-92.55	503.3	0.8429	20.8174833
05.09.2014 13:16:55.2	-90.04	503.3	0.8553	20.9700484
05.09.2014 13:16:55.3	-90.23	503.5	0.8204	20.5377576
05.09.2014 13:16:55.4	-90.14	503.5	0.8277	20.6289287
05.09.2014 13:16:55.5	-88.01	503.3	0.7611	19.7815837
05.09.2014 13:16:55.6	-87.62	503.3	0.7201	19.2413971
05.09.2014 13:16:55.7	-87.65	503.5	0.8748	21.2077495
05.09.2014 13:16:55.8	-87.14	503.6	0.8251	20.5965031
05.09.2014 13:16:55.9	-84.88	503.4	0.9745	22.383661
05.09.2014 13:16:56.0	-85.12	503.3	0.9001	21.5122372
05.09.2014 13:16:56.1	-85.04	503.5	0.9437	22.0270925
05.09.2014 13:16:56.2	-82.54	503.5	0.7685	19.877517
05.09.2014 13:16:56.3	-82.53	503.4	0.8535	20.9479708
05.09.2014 13:16:56.4	-82.54	503.4	0.802	20.3061402
05.09.2014 13:16:56.5	-81.75	503.6	0.8383	20.7606014
05.09.2014 13:16:56.6	-79.8	503.5	0.8616	21.0471377
05.09.2014 13:16:56.7	-79.99	503.5	0.8198	20.530246
05.09.2014 13:16:56.8	-80	503.6	0.8888	21.3767767
05.09.2014 13:16:56.9	-77.96	503.7	0.9257	21.8160103
05.09.2014 13:16:57.0	-77.37	503.6	0.927	21.8313235
05.09.2014 13:16:57.1	-77.42	503.5	0.8435	20.8248912

05.09.2014 13:16:57.2	-77.02	503.7	0.8693	21.1409762
05.09.2014 13:16:57.3	-74.32	503.7	0.9509	22.1109611
05.09.2014 13:16:57.4	-74.55	503.7	0.8598	21.025141
05.09.2014 13:16:57.5	-74.57	503.6	0.8451	20.8446328
05.09.2014 13:16:57.6	-73.04	503.9	0.9234	21.7888913
05.09.2014 13:16:57.7	-71.86	503.9	0.8801	21.2718963
05.09.2014 13:16:57.8	-71.97	503.6	0.7934	20.1969735
05.09.2014 13:16:57.9	-71.3	503.5	0.9148	21.6871895
05.09.2014 13:16:58.0	-69.22	503.6	0.8395	20.7754552
05.09.2014 13:16:58.1	-69.49	503.5	0.8814	21.2876009
05.09.2014 13:16:58.2	-69.45	503.3	0.896	21.4631866
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05.09.2014 13:17:22.9	113.79	502.6	0.8261	20.6089805
05.09.2014 13:17:23.0	116.41	502.7	0.8538	20.951652
05.09.2014 13:17:23.1	116.33	502.9	0.906	21.5826265
05.09.2014 13:17:23.2	116.34	503	0.8887	21.3755741
05.09.2014 13:17:23.3	118.2	502.8	0.8745	21.2041127
05.09.2014 13:17:23.4	118.92	502.7	0.9369	21.9475889
05.09.2014 13:17:23.5	118.88	502.9	0.8922	21.4176248
05.09.2014 13:17:23.6	119.16	502.9	0.9327	21.8983396
05.09.2014 13:17:23.7	121.6	502.6	0.8451	20.8446328
05.09.2014 13:17:23.8	121.42	502.6	0.8534	20.9467436
05.09.2014 13:17:23.9	121.47	502.8	0.9152	21.6919304
05.09.2014 13:17:24.0	123.68	502.7	0.8984	21.4919127
05.09.2014 13:17:24.1	123.97	502.6	0.9529	22.1342016
05.09.2014 13:17:24.2	123.97	502.6	0.8737	21.1944116
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05.09.2014 13:17:24.5	126.51	502.4	0.8634	21.0691114
05.09.2014 13:17:24.6	126.57	502.4	0.8215	20.5515216
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05.09.2014 13:17:24.8	129.06	502.4	1.0853	23.6219148
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05.09.2014 13:17:25.2	131.62	502.2	0.9711	22.3445789
05.09.2014 13:17:25.3	131.62	502.1	1.0002	22.6768967
05.09.2014 13:17:25.4	133.78	502.4	0.9668	22.2950535
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05.09.2014 13:17:25.8	137.32	502.5	0.9741	22.3790666
05.09.2014 13:17:25.9	137.05	502.5	0.8611	21.0410298

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05.09.2014 13:17:47.8	294.92	504.8	0.5605	16.9757123
05.09.2014 13:17:47.9	294.92	505	0.6259	17.9387705
05.09.2014 13:17:48.0	294.89	504.9	0.6053	17.6410948
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05.09.2014 13:19:01.0	-217.49	513.3	0.8733	21.1895594
05.09.2014 13:19:01.1	-217.47	513.2	0.9282	21.8454492
05.09.2014 13:19:01.2	-217.49	513.2	1.0447	23.1758672
05.09.2014 13:19:01.3	-217.49	513.3	0.8254	20.6002471
05.09.2014 13:19:01.4	-217.48	513.3	0.8793	21.2622262
05.09.2014 13:19:01.5	-217.51	513.2	0.9938	22.6042287
05.09.2014 13:19:01.6	-217.49	513.2	0.937	21.9487601
05.09.2014 13:19:01.7	-217.5	513.3	0.9894	22.5541337
05.09.2014 13:19:01.8	-217.46	513.2	0.9242	21.7983278
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05.09.2014 13:19:02.0	-217.48	513.3	0.8644	21.0813091
05.09.2014 13:19:02.1	-217.47	513.4	0.8453	20.8470991
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05.09.2014 13:19:02.4	-217.49	513.4	0.8702	21.1519171
05.09.2014 13:19:02.5	-217.49	513.4	0.9834	22.4856424
05.09.2014 13:19:02.6	-217.5	513.3	0.8906	21.3984119
05.09.2014 13:19:02.7	27.91281827	513.3	0.9747	22.3859578
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05.09.2014 13:19:02.9	27.88868172	513.5	0.8963	21.4667795
05.09.2014 13:19:03.0	27.87661344	513.3	0.9353	21.9288403
05.09.2014 13:19:03.1	27.86454517	513.4	0.9128	21.6634695
05.09.2014 13:19:03.2	27.85247689	513.6	0.9465	22.0597459
05.09.2014 13:19:03.3	27.84040861	513.6	0.9665	22.2915941
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05.09.2014 13:19:03.9	27.76799896	513.9	0.984	22.4925009
05.09.2014 13:19:04.0	27.75593069	514	0.8845	21.3250037
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05.09.2014 13:19:04.6	27.68352103	514.1	0.8626	21.0593481
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05.09.2014 13:19:06.0	27.51456518	514.2	0.9101	21.6314063
05.09.2014 13:19:06.1	27.5024969	514.2	0.9157	21.6978551
05.09.2014 13:19:06.2	27.49042863	514.4	0.9171	21.7144355
05.09.2014 13:19:06.3	27.47836035	514.5	0.8539	20.9528789

Calculation of mass flow rate based on polynomial equation fitted to the experimental data

$$y = -3.401197E-14x^6 + 1.375025E-12x^5 + 2.020376E-09x^4 + 3.291570E-08x^3 + 2.204602E-06x^2 - 1.314397E-03x + 2.101281E+01$$

Please enter below Polynomial Coefficients

Order no	Coeff
6	-3.401197E-14
5	1.375025E-12
4	2.020376E-09
3	3.291570E-08
2	2.204602E-06
1	-1.314397E-03
0	2.101281E+01

Polynomial curve (dP vs position)

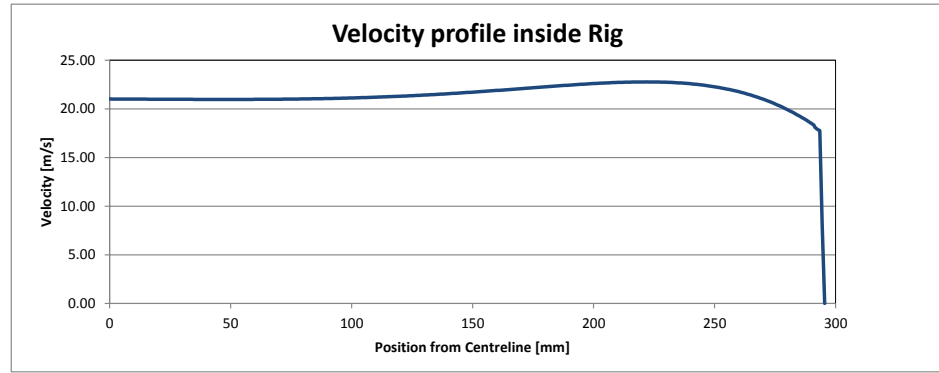
Please do NOT alter any of the figures below

position [mm]	Velocity [m/s]
0	21.012810
1	21.011498
2	21.010190
3	21.008888
4	21.007590
5	21.006299
6	21.005013
7	21.003733
8	21.002461
9	21.001196
10	20.999940
11	20.998692
12	20.997454
13	20.996226
14	20.995009
15	20.993804
16	20.992612
17	20.991434
18	20.990271
19	20.989123
20	20.987993
21	20.986880
22	20.985787
23	20.984715
24	20.983664
25	20.982637
26	20.981634
27	20.980657
28	20.979707
29	20.978786
30	20.977896
31	20.977038
32	20.976214
33	20.975424
34	20.974673
35	20.973960
36	20.973287
37	20.972657
38	20.972072
39	20.971533
40	20.971042

Actual Area	0.274324656	[m2]
Integrated area	0.274324656	[m2]
Area Error	0	[%]
Integrated Mass flow	2.27820556	[Kg/s]

Delta Area [m2]	Delta Mass flow [Kg/s]
0	0
3.14159E-06	2.56777E-05
9.42478E-06	7.70284E-05
1.5708E-05	0.000128373
2.19911E-05	0.000179711
2.82743E-05	0.000231042
3.45575E-05	0.000282368
4.08407E-05	0.000333687
4.71239E-05	0.000385
5.34071E-05	0.000436307
5.96903E-05	0.000487608
6.59734E-05	0.000538904
7.22566E-05	0.000590193
7.85398E-05	0.000641476
8.4823E-05	0.000692754
9.11062E-05	0.000744027
9.73894E-05	0.000795294
0.000103673	0.000846556
0.000109956	0.000897812
0.000116239	0.000949064
0.000122522	0.001000311
0.000128805	0.001051553
0.000135088	0.001102791
0.000141372	0.001154025
0.000147655	0.001205254
0.000153938	0.00125648
0.000160221	0.001307702
0.000166504	0.001358922
0.000172788	0.001410138
0.000179071	0.001461351
0.000185354	0.001512563
0.000191637	0.001563772
0.00019792	0.00161498
0.000204204	0.001666186
0.000210487	0.001717392
0.00021677	0.001768597
0.000223053	0.001819803
0.000229336	0.001871009
0.000235619	0.001922215
0.000241903	0.001973424
0.000248186	0.002024634

Based on density in input/output



41	20.970601
42	20.970213
43	20.969879
44	20.969601
45	20.969382
46	20.969224
47	20.969128
48	20.969098
49	20.969135
50	20.969242
51	20.969420
52	20.969673
53	20.970003
54	20.970412
55	20.970902
56	20.971476
57	20.972136
58	20.972885
59	20.973725
60	20.974659
61	20.975689
62	20.976818
63	20.978049
64	20.979383
65	20.980823
66	20.982373
67	20.984034
68	20.985810
69	20.987702
70	20.989714
71	20.991847
72	20.994105
73	20.996491
74	20.999006
75	21.001653
76	21.004435
77	21.007355
78	21.010415
79	21.013617
80	21.016965
81	21.020460
82	21.024105
83	21.027903
84	21.031857
85	21.035967
86	21.040238
87	21.044671
88	21.049269
89	21.054034
90	21.058968
91	21.064074
92	21.069354
93	21.074810
94	21.080444
95	21.086259
96	21.092256
97	21.098437

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0.001567655	0.013579112
0.001573938	0.013608311
0.001580221	0.013636059
0.001586504	0.013662312
0.001592787	0.013687023
0.001599071	0.013710148
0.001605354	0.01373164
0.001611637	0.01375145
0.00161792	0.013769531
0.001624203	0.013785832
0.001630487	0.013800304
0.00163677	0.013812894
0.001643053	0.013823549
0.001649336	0.013832217
0.001655619	0.013838843
0.001661903	0.01384337
0.001668186	0.013845744
0.001674469	0.013845905
0.001680752	0.013843795

269	21.088324
270	20.999701
271	20.908022
272	20.813226
273	20.715249
274	20.614030
275	20.509504
276	20.401606
277	20.290272
278	20.175434
279	20.057025
280	19.934977
281	19.809222
282	19.679690
283	19.546310
284	19.409010
285	19.267718
286	19.122360
287	18.972863
288	18.819152
289	18.661150
290	18.498780
291	18.331964
291.5	18.100000
292.5	17.900000
293.5	17.750000
294.5	8.000000
295.5	0.000000

0.001687035	0.013839354
0.001693318	0.013832521
0.001699602	0.013823235
0.001705885	0.013811432
0.001712168	0.013797047
0.001718451	0.013780015
0.001724734	0.013760271
0.001731018	0.013737744
0.001737301	0.013712368
0.001743584	0.013684071
0.001749867	0.013652783
0.00175615	0.01361843
0.001762433	0.013580938
0.001768717	0.013540233
0.001775	0.013496237
0.001781283	0.013448874
0.001787566	0.013398063
0.001793849	0.013343725
0.001800133	0.013285778
0.001806416	0.013224138
0.001812699	0.013158721
0.001818982	0.013089442
0.001825265	0.013016212
0.000914989	0.006442345
0.00183469	0.012775131
0.001840973	0.01271146
0.001847256	0.005748662
0.00185354	0

Please do not change any of the values in this sheet

Patm	Atmpsheric air pressure - (As recorded from engine data)	970 [mBar]
Patm		97000 [Pa]
Tatm		11.4 [C]
Tatm		284.4 [K]
Relative Humidity		69 [%]

$$\rho_{\text{humid air}}^{[1]} = \frac{p_d}{R_d T} + \frac{p_v}{R_v T} = \frac{p_d M_d + p_v M_v}{RT}$$

where:

$\rho_{\text{humid air}}$	Density of the humid air (kg/m ³)
p_d	Partial pressure of dry air (Pa)
R_d	Specific gas constant for dry air, 287.058 J/(kg·K)
T	Temperature (K)
p_v	Pressure of water vapor (Pa)
R_v	Specific gas constant for water vapor, 461.495 J/(kg·K)
M_d	Molar mass of dry air, 0.028964 (kg/mol)
M_v	Molar mass of water vapor, 0.018016 (kg/mol)
R	Universal gas constant, 8.314 J/(K·mol)

$$\rho_{\text{humid air}} = 1.183897 \text{ Kg/m}^3$$

$$0.359550292$$

The vapor pressure of water may be calculated from the [saturation vapor pressure](#) and [relative humidity](#). It is found by:

$$p_v = \phi p_{\text{sat}}$$

$$p_u = 930.0828 \text{ [Pa]}$$

Where:

p_v	Vapor pressure of water
ϕ	Relative humidity
p_{sat}	Saturation vapor pressure

The [saturation vapor pressure of water](#) at any given temperature is the vapor pressure when relative humidity is 100%. One formula ^[1] used to find the saturation vapor pressure is:

$$p_{\text{sat}} = 6.1078 \times 10^{\frac{7.5T}{T+237.3}}$$

$$p_{\text{sat}} = 13.47946 \text{ hPa}$$

$$p_{\text{sat}} = 1347.946 \text{ [Pa]}$$

where T is in degrees C. Note:

$$\rho = \frac{p}{R_{\text{specific}} T} \quad 1.18815 \text{ [kg/m}^3\text{]}$$

$$R = 287.058 \text{ J/Kg K}$$

$$T = \text{Temperature in degrees Kelvin}$$

$$P = \text{Absolute Pressure in Pa}$$