

99 Advanced Fan Stage GT2010-22825

Reynolds: RNI=0.100 f=0.950 RNI=1.000 f=1.000

Mass Flow

16.03100000	0.000000000	0.034482758	0.068965517	0.103448279
0.137931034	0.172413796	0.206896558	0.241379306	0.275862068
0.310344815	0.344827592	0.379310340	0.413793117	0.448275864
0.482758611	0.517241359	0.551724136	0.586206913	0.620689631
0.655172408	0.689655185	0.724137902	0.758620679	0.793103456
0.827586234	0.862068951	0.896551728	0.931034505	0.965517223
1.000000000				
0.010000000	0.910664380	0.896122634	0.881654859	0.866869748
0.852119327	0.837791443	0.821675777	0.805426359	0.789834797
0.773606122	0.756854355	0.739670038	0.722108901	0.704184055
0.685869157	0.667082787	0.647692561	0.627578437	0.608159900
0.587272048	0.564882934	0.541357279	0.517387807	0.490822583
0.461381674	0.431214243	0.397822767	0.358067125	0.305625230
0.234691247				
0.050000001	4.553322315	4.480613232	4.408274651	4.334349155
4.260596752	4.188957214	4.108379364	4.027132034	3.949174166
3.868030787	3.784271955	3.698350430	3.610544682	3.520920277
3.429345846	3.335413933	3.238463163	3.137892246	3.040799618
2.936360359	2.824414730	2.706786394	2.586939096	2.454113007
2.306908607	2.156071186	1.989113927	1.790335655	1.528126240
1.173456311				
0.100000001	9.10664463	8.961226463	8.816549301	8.668698311
8.521193504	8.377914429	8.216758728	8.054264069	7.898348331
7.736061573	7.568543911	7.396700859	7.221089363	7.041840553
6.858691692	6.670827866	6.476926327	6.275784492	6.081599236
5.872720718	5.648829460	5.413572788	5.173878193	4.908226013
4.613817215	4.312142372	3.978227854	3.580671310	3.056252480
2.346912622				
0.144999996	13.20463371	12.99377823	12.78399563	12.56961155
12.35573006	12.14797592	11.91429901	11.67868233	11.45260429
11.21728897	10.97438812	10.72521591	10.47057915	10.21066856
9.94510269	9.67269993	9.39154243	9.09988689	8.818318367
8.515444756	8.190802574	7.849680424	7.502122879	7.116927624
6.690034389	6.252606392	5.768430233	5.191973209	4.431565762
3.403023005				
0.150000006	13.30287743	13.09424400	12.88874817	12.66621971
12.47120094	12.24935627	12.00532532	11.78573799	11.55613899
11.31840706	11.07413673	10.82441711	10.56970119	10.30979156
10.04389477	9.77072716	9.48865604	9.19584656	8.922900200
8.610337257	8.284920692	7.942595959	7.597518921	7.207402706
6.779367924	6.347186089	5.864495277	5.290758610	4.537775040
3.533827543				
0.250000000	14.99958992	14.86843204	14.74171734	14.60112381
14.44098282	14.27068329	14.09861755	13.91639709	13.71155071
13.49686241	13.27265358	13.04613400	12.81004810	12.56456566
12.29676056	12.01675415	11.73564053	11.43661022	11.11857510
10.78089333	10.42343998	10.04652119	9.65078259	9.23699474
8.805783272	8.357199669	7.890192032	7.402016163	6.887376785
6.338335037				
0.370000005	17.29891777	17.23340988	17.15990067	17.08670998
16.98570442	16.88346481	16.75746346	16.62114716	16.47179413
16.30673599	16.12379837	15.92156219	15.69949150	15.45794106

15.19802094	14.92145061	14.63030815	14.32675838	14.01282978
13.69011116	13.35959911	13.02153015	12.67481709	12.30518913
11.93179512	11.54504013	11.13006306	10.68955803	10.24675560
9.77147293				
0.500000000	20.01684570	20.01684570	20.01684570	20.01684570
20.01683235	20.00789452	19.95615387	19.88279915	19.78743744
19.67001343	19.53072929	19.36995125	19.18815804	18.98589134
18.76373863	18.52233124	18.26234436	17.98455429	17.68986130
17.37938499	17.05454063	16.71714211	16.36954308	16.01572037
15.67452145	15.31941509	14.94947243	14.58689594	14.22138023
13.84737110				
0.600000024	23.28407288	23.28407288	23.28407288	23.28406334
23.28312111	23.26995850	23.24877167	23.21320915	23.15702820
23.07482719	22.95465088	22.81866646	22.66164017	22.47931099
22.26872444	22.02842140	21.75855446	21.46088409	21.13866234
20.79650688	20.44136047	20.08489418	19.72336578	19.35671806
18.98731422	18.63282585	18.27295494	17.91481590	17.55321884
17.19794846				
0.699999988	26.51148605	26.51148605	26.51148605	26.51148605
26.51148605	26.51148605	26.51148605	26.51148224	26.51080513
26.49081230	26.45010948	26.38242722	26.28237534	26.14586449
25.97045135	25.75555992	25.50263786	25.21728516	24.92693329
24.59930038	24.24552536	23.88915825	23.53733063	23.17050743
22.79790878	22.43317032	22.06406021	21.68791962	21.30783653
20.94897461				
0.800000012	30.47702980	30.47702980	30.47702980	30.47702980
30.47702980	30.47702980	30.47702980	30.47702980	30.47702980
30.47703743	30.47624588	30.45007896	30.40031624	30.31798363
30.19575691	30.02843475	29.81328964	29.55020905	29.24170685
28.89274788	28.51041794	28.10344696	27.68152809	27.25452805
26.83150101	26.41952896	26.01971245	25.60981750	25.21994972
24.82493973				
0.850000024	32.72511673	32.72511673	32.72511673	32.72511673
32.72511673	32.72511673	32.72511673	32.72511673	32.72521591
32.72753143	32.71783829	32.71075439	32.69456863	32.62093353
32.52312851	32.36240005	32.16897964	31.90461349	31.59544373
31.20906067	30.79990578	30.37775803	29.96366882	29.55051422
29.14060593	28.69643402	28.27850342	27.84151077	27.40267754
26.98710823				
0.899999976	34.98621750	34.98621750	34.98621750	34.98621750
34.98621750	34.98621750	34.98621750	34.98621750	34.98621750
34.98621750	34.98622131	34.98688126	34.98258591	34.95663071
34.89619827	34.78878784	34.62374115	34.39363861	34.09553146
33.73175430	33.31033325	32.84478760	32.35600281	31.88797760
31.42195129	30.95440865	30.49770355	30.01636887	29.55221558
29.12796974				
0.949999988	36.32771683	36.32771683	36.32771683	36.32771683
36.32771683	36.32771683	36.32771683	36.32771683	36.32771683
36.32771683	36.32771683	36.32771683	36.32771683	36.32770920
36.32687378	36.31422806	36.29391479	36.24714661	36.14524078
35.96412659	35.67463303	35.24947739	34.81921768	34.32894516
33.79606247	33.24298859	32.68891525	32.11036301	31.54152679
30.95865250				
1.000000000	37.33078003	37.33078003	37.33078003	37.33078003
37.33078003	37.33078003	37.33078003	37.33078003	37.33078003

37.33078003	37.33078003	37.33078003	37.33078003	37.33078003
37.33077621	37.33029938	37.32707214	37.32022858	37.29335785
37.23202515	37.13391876	37.00955200	36.83243179	36.53048706
36.00734329	35.28189087	34.55436325	33.84685898	33.19295502
32.52833176				

Efficiency

16.03100000	0.000000000	0.034482758	0.068965517	0.103448279
0.137931034	0.172413796	0.206896558	0.241379306	0.275862068
0.310344815	0.344827592	0.379310340	0.413793117	0.448275864
0.482758611	0.517241359	0.551724136	0.586206913	0.620689631
0.655172408	0.689655185	0.724137902	0.758620679	0.793103456
0.827586234	0.862068951	0.896551728	0.931034505	0.965517223
1.000000000				
0.010000000	9.96845341	9.98441601	9.83730030	9.73705482
9.63552761	9.51306629	9.49032211	9.48744202	9.45579243
9.48123169	9.57230759	9.74301243	10.02144337	10.45920277
11.15806770	12.33704281	14.58325958	19.93895149	39.33784485
-64.69779205	-11.72914696	-4.689821720	-2.007048607	-0.678830087
0.032916270	0.479821086	0.735133171	0.829576850	0.771691918
0.632960916				
0.050000001	10.15550518	10.06974888	9.91597080	9.80933952
9.70233154	9.57343197	9.54595184	9.53853703	9.50160980
9.52260113	9.60929680	9.77634621	10.05089283	10.48441219
11.17816830	12.35500908	14.59582043	19.94535255	39.31873322
-64.62088013	-11.70148659	-4.670172215	-1.992835641	-0.667541027
0.042540066	0.487549722	0.740757942	0.834153175	0.774647117
0.635972619				
0.100000001	10.56075096	10.27069759	10.18931484	10.06217766
9.93552113	9.78710651	9.74371052	9.72132587	9.66907215
9.67635155	9.75084496	9.90699387	10.17195511	10.59736252
11.28478241	12.45828819	14.70128345	20.06758690	39.51662827
-64.87999725	-11.73711681	-4.680047989	-1.995142698	-0.667597353
0.042835310	0.487458616	0.739938557	0.832819879	0.773215234
0.634755194				
0.144999996	11.00629711	10.85809612	10.63983536	10.47573471
10.31409073	10.13153458	10.06035233	10.01209545	9.93379021
9.91799259	9.97200012	10.11002445	10.35914326	10.77115631
11.44824028	12.61593056	14.86168003	20.25337029	39.81734085
-65.27452087	-11.79183578	-4.695623875	-1.999209166	-0.668156028
0.042869553	0.486968100	0.738531828	0.830657601	0.770929515
0.632834017				
0.150000006	10.66159058	10.79961205	10.66366291	10.46405506
10.25242519	10.15033340	10.15792465	10.07304859	10.05278873
10.10327911	10.23657322	10.47590256	10.86550045	11.49141788
12.53321457	14.42075539	18.47574043	31.66016197	580.2294922
-19.58584595	-7.119459629	-3.216814756	-1.369783044	-0.382146269
0.175469652	0.547625601	0.757283032	0.830245972	0.768054843
0.637059391				
0.250000000	22.65039444	27.36978722	32.13225174	45.38094711
85.69454956	-371.9250183	-49.54615402	-23.18937492	-13.49732685
-8.579513550	-5.777867794	-3.891599655	-2.658453226	-1.748979092
-1.083199739	-0.575789511	-0.177005470	0.126142070	0.353043079
0.519400895	0.638192952	0.720158875	0.774133205	0.807227850
0.824999869	0.831563354	0.829716146	0.821115136	0.806420207

0.785836637				
0.370000005	-3.213737249	-2.555439711	-2.038726091	-1.614557147
-1.265674710	-0.942361951	-0.664714098	-0.421738952	-0.209780350
-0.025814973	0.132835254	0.268668532	0.384251058	0.481362820
0.564049900	0.626800835	0.682143569	0.726758838	0.762359560
0.790396869	0.812014937	0.828024566	0.838776469	0.840857089
0.840125144	0.835922599	0.823772669	0.806025088	0.788871527
0.766193628				
0.500000000	-0.568946242	-0.405663788	-0.256762594	-0.118335597
0.010594084	0.129836589	0.233150795	0.326416075	0.410470724
0.485497594	0.550872922	0.607615650	0.657439530	0.700428128
0.737540126	0.767107487	0.793036103	0.812900066	0.827188969
0.836450219	0.841286957	0.842361331	0.840403676	0.836358905
0.833356500	0.827947259	0.819202304	0.811271071	0.802560449
0.792359948				
0.600000024	0.003743478	0.090253092	0.172270596	0.250923246
0.324937999	0.395278215	0.461698323	0.520384490	0.578943491
0.630543709	0.675721824	0.716857493	0.750534475	0.780648232
0.805831313	0.824655771	0.839123070	0.847975314	0.851905167
0.851809263	0.848884106	0.844903171	0.839469731	0.832717657
0.825305820	0.818693042	0.811226904	0.803560436	0.795125127
0.787127733				
0.699999988	0.216577590	0.274239779	0.329350352	0.382974714
0.434546620	0.483023167	0.530687690	0.577932060	0.620767713
0.663445115	0.703215718	0.735916793	0.767211199	0.795177221
0.816527069	0.833500922	0.844007611	0.851489544	0.857510209
0.858219624	0.855426788	0.851643324	0.847683907	0.841588795
0.834515631	0.827526689	0.819822013	0.811075628	0.801653087
0.793956280				
0.800000012	0.344734937	0.387975782	0.429630667	0.469779164
0.509458184	0.545846999	0.582586765	0.618634045	0.654821336
0.690101922	0.722942233	0.755495429	0.784496903	0.810688257
0.832245708	0.850114644	0.862194359	0.869036913	0.871831298
0.870435655	0.865899086	0.858754873	0.849920452	0.840284944
0.830623567	0.821512282	0.813033700	0.803489685	0.795200408
0.786269367				
0.850000024	0.396726847	0.435729682	0.473601162	0.509777308
0.544949353	0.580143392	0.613070011	0.645747542	0.678651571
0.708805442	0.738907635	0.767847776	0.796665967	0.820028424
0.841650605	0.858128905	0.870068014	0.875008583	0.875259221
0.869253099	0.863004923	0.856297553	0.849575460	0.842869699
0.835522413	0.826177657	0.818271518	0.809837043	0.799208581
0.792307675				
0.899999976	0.440124899	0.476013124	0.510699868	0.544244170
0.576701283	0.607030213	0.638554752	0.668043375	0.697865069
0.726912618	0.753508985	0.781835079	0.808783412	0.831740499
0.851901352	0.867759466	0.875994623	0.878514051	0.877369702
0.871420503	0.864106953	0.855843484	0.846743762	0.839183211
0.831715465	0.823807061	0.815548599	0.805827320	0.796542525
0.788760841				
0.949999988	0.440049738	0.473415673	0.506730318	0.537203252
0.567717969	0.597369790	0.627351701	0.656644344	0.682783961
0.710206211	0.736569703	0.763064742	0.787107170	0.807650864
0.827436507	0.845582664	0.857382476	0.865378141	0.868799031
0.869189322	0.864892781	0.857722521	0.849652946	0.841624320

0.831796110	0.820870876	0.808809459	0.797182024	0.785526812
0.772535622				
1.000000000	0.426299304	0.457444459	0.488704592	0.517070651
0.546360970	0.575000525	0.603194773	0.630718470	0.657393217
0.683308721	0.708363712	0.732421458	0.755083978	0.775022447
0.792875767	0.810196936	0.822525501	0.830086887	0.836873651
0.841081202	0.844478190	0.845269382	0.842412055	0.837080777
0.826484203	0.808618128	0.794574916	0.779997528	0.767276168
0.754151404				

Pressure Ratio

16.03100000	0.000000000	0.034482758	0.068965517	0.103448279
0.137931034	0.172413796	0.206896558	0.241379306	0.275862068
0.310344815	0.344827592	0.379310340	0.413793117	0.448275864
0.482758611	0.517241359	0.551724136	0.586206913	0.620689631
0.655172408	0.689655185	0.724137902	0.758620679	0.793103456
0.827586234	0.862068951	0.896551728	0.931034505	0.965517223
1.000000000				
0.010000000	0.998909771	0.998971522	0.999032199	0.999091327
0.999149442	0.999206901	0.999261141	0.999314129	0.999366879
0.999417841	0.999467134	0.999514937	0.999561310	0.999606311
0.999649942	0.999692261	0.999732971	0.999772072	0.999811471
0.999848425	0.999882936	0.999915659	0.999947667	0.999976397
1.000001907	1.000027180	1.000049829	1.000067472	1.000076652
1.000078321				
0.050000001	0.972744286	0.974288225	0.975804925	0.977283716
0.978735507	0.980172992	0.981528461	0.982852697	0.984171987
0.985445797	0.986678243	0.987872779	0.989032090	0.990157545
0.991249263	0.992305815	0.993323982	0.994301260	0.995286822
0.996210217	0.997073412	0.997892022	0.998691738	0.999410152
1.000048757	1.000680566	1.001245856	1.001687169	1.001914978
1.001958728				
0.100000001	0.890977144	0.897152901	0.903219640	0.909134924
0.914941907	0.920692027	0.926113904	0.931410730	0.936687887
0.941783309	0.946712911	0.951491058	0.956128299	0.960630059
0.964997172	0.969223201	0.973295808	0.977205157	0.981147408
0.984840930	0.988293707	0.991568148	0.994767010	0.997640669
1.000195146	1.002722502	1.004983306	1.006748796	1.007660151
1.007835031				
0.144999996	0.770779431	0.783764005	0.796519339	0.808956206
0.821165383	0.833254933	0.844654500	0.855791092	0.866886258
0.877599359	0.887963951	0.898010015	0.907759786	0.917224765
0.926406503	0.935291767	0.943854451	0.952073812	0.960362375
0.968128026	0.975387573	0.982272089	0.988997579	0.995039523
1.000410199	1.005723953	1.010477424	1.014189363	1.016105413
1.016473055				
0.150000006	0.772345304	0.785410464	0.798281252	0.810619175
0.823198557	0.835076153	0.846316516	0.857776821	0.868834317
0.879524946	0.889882505	0.899933398	0.909693420	0.919166625
0.928346276	0.937216818	0.945757270	0.953944802	0.962391913
0.969951451	0.977171361	0.984001815	0.990737021	0.996641994
1.001933098	1.007267594	1.011958599	1.015593767	1.017427683
1.017763734				
0.250000000	0.801497936	0.816873372	0.832142591	0.846945107
0.861140490	0.874899983	0.888395190	0.901440501	0.913742304

0.925574362	0.936939895	0.948008418	0.958610833	0.968751967
0.978118181	0.986958385	0.995553672	1.003501415	1.010788202
1.017417669	1.023412704	1.028813481	1.033674955	1.038060904
1.042037368	1.045663357	1.048981547	1.052011251	1.054741502
1.057147145				
0.370000005	0.847369134	0.865840197	0.884006858	0.902049899
0.919270933	0.936286926	0.952502489	0.968232214	0.983382165
0.997854590	1.011562228	1.024438381	1.036444306	1.047571778
1.057841182	1.067298174	1.076005816	1.084035635	1.091459632
1.098339677	1.104721665	1.110629916	1.116049528	1.120562315
1.124787927	1.128460646	1.131174564	1.133072615	1.134889960
1.135820150				
0.500000000	0.911037087	0.933758199	0.956479251	0.979200304
1.001921058	1.024367213	1.045433402	1.065684080	1.085044622
1.103454232	1.120864868	1.137239695	1.152551532	1.166781783
1.179919720	1.191962838	1.202916741	1.212797403	1.221631646
1.229461551	1.236346602	1.242367625	1.247632265	1.252316833
1.257197857	1.261226535	1.264387608	1.267592430	1.270448446
1.272758842				
0.600000024	1.001117826	1.027672052	1.054226279	1.080780268
1.107301712	1.133379579	1.159125328	1.184265018	1.208500028
1.231539369	1.252799153	1.273112416	1.292207360	1.309839964
1.325816631	1.340011716	1.352379203	1.362959981	1.371879220
1.379342318	1.385680556	1.391466498	1.396536589	1.400904894
1.404704809	1.408820152	1.412280083	1.415451646	1.418100119
1.420724154				
0.699999988	1.104620099	1.135488272	1.166356564	1.197224736
1.228092909	1.258961082	1.289829373	1.320697427	1.351534605
1.381461263	1.410329938	1.437746167	1.463332891	1.486761093
1.507780790	1.526245236	1.542130589	1.555663109	1.568325162
1.578285336	1.586133480	1.593209028	1.599941969	1.605214715
1.609573722	1.613838792	1.617312193	1.619853973	1.621665478
1.624266028				
0.800000012	1.251552105	1.288438678	1.325325251	1.362211943
1.399098516	1.435985088	1.472871661	1.509758234	1.546644926
1.583531857	1.620374203	1.655753255	1.689655066	1.721429467
1.750483513	1.776329041	1.798626781	1.817215443	1.832128882
1.843595386	1.852021813	1.857961297	1.862062931	1.865012646
1.867457867	1.869922161	1.872519612	1.873726845	1.875679374
1.876638532				
0.850000024	1.344524503	1.385174513	1.425824523	1.466474414
1.507124424	1.547774434	1.588424444	1.629074454	1.669730067
1.710515618	1.750586152	1.790784836	1.830379963	1.866170645
1.900105000	1.929433823	1.955997944	1.976978421	1.994017601
2.004655600	2.012703657	2.018859863	2.024686813	2.029692888
2.034079075	2.035040617	2.037158012	2.037032843	2.035993099
2.035993099				
0.899999976	1.445097566	1.489789248	1.534481049	1.579172730
1.623864532	1.668556213	1.713247895	1.757939696	1.802631378
1.847323179	1.892015100	1.936750650	1.981150746	2.024019241
2.064320803	2.100962400	2.132921696	2.159384251	2.179874897
2.194358826	2.203303099	2.207676411	2.209100485	2.211119175
2.212276220	2.212321043	2.212296486	2.209329844	2.206881285
2.206881285				
0.949999988	1.508114696	1.555325985	1.602537274	1.649748564

1.696959853	1.744171143	1.791382432	1.838593721	1.885805130
1.933016419	1.980227709	2.027438879	2.074650288	2.121860981
2.169009924	2.215251446	2.260843515	2.304235697	2.342934847
2.374658585	2.396592140	2.406027317	2.413884401	2.415409565
2.412050724	2.405758142	2.398243427	2.387486219	2.376536131
2.362445354				
1.000000000	1.556862712	1.606017113	1.655171514	1.704325914
1.753480315	1.802634716	1.851789117	1.900943637	1.950098038
1.999252439	2.048406839	2.097561121	2.146715641	2.195870161
2.245024204	2.294141054	2.343034029	2.391615629	2.438477039
2.482257843	2.522566795	2.560158730	2.592488527	2.612657070
2.611270905	2.589754581	2.567685604	2.544104815	2.525764227
2.504803419				

Surge Line

2.016000000	0.234691247	1.173456311	2.346912622	3.406358242
3.449603796	6.762837410	10.04202366	14.36771011	17.86308670
21.65442657	25.08208847	27.05023956	29.36503792	32.11761856
34.90362549				
1.000000000	1.000078321	1.001958728	1.007835031	1.016471863
1.017791867	1.055287123	1.135290623	1.269305110	1.415830493
1.620013595	1.876014113	2.035993099	2.206881285	2.387621164
2.578280210				