



## Gas Turbine Flow Rates:

Standard Pressure: 101.325 kPaa  
 Standard Temperature: 15 °C  
 Flowing Temperature: 20 °C

Gas Composition: 100% Methane  
 Base Compressibility: 0.998 Z

				1" Turbine				2" Turbine				3" Turbine				4" Turbine		6" Turbine							
				45		30		15		45		30		15		15		15							
				12 acf/min		20 acf/min		43 acf/min		52 acf/min		93 acf/min		200 acf/min		208 acf/min		363 acf/min		782 acf/min		1100 acf/min		3000 acf/min	
Pressure		Z	Gas Density	e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day		e3m3/day	
psia	kPaa		kg/m <sup>3</sup>	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
13	90	0.998	0.591	0.040	0.43	0.069	0.7	0.15	1.5	0.17	1.8	0.30	3.3	0.65	7.1	0.37	7.4	0.64	13	1.38	28	2.95	39	9.23	106
15	103	0.998	0.682	0.042	0.49	0.074	0.8	0.16	1.8	0.19	2.1	0.32	3.8	0.69	8.2	0.40	8.5	0.69	15	1.49	32	3.17	45	9.91	123
20	138	0.997	0.910	0.049	0.65	0.085	1.1	0.18	2.3	0.21	2.8	0.37	5.1	0.80	10.9	0.46	11.4	0.80	20	1.72	43	3.66	60	11.45	164
25	172	0.997	1.138	0.055	0.82	0.095	1.4	0.20	2.9	0.24	3.5	0.42	6.3	0.90	13.7	0.51	14.2	0.89	25	1.92	53	4.10	75	12.80	205
30	207	0.996	1.367	0.060	0.98	0.104	1.6	0.22	3.5	0.26	4.3	0.46	7.6	0.98	16.4	0.56	17.0	0.98	30	2.10	64	4.49	90	14.03	246
35	241	0.996	1.595	0.065	1.15	0.113	1.9	0.24	4.1	0.28	5.0	0.49	8.9	1.06	19.1	0.61	19.9	1.06	35	2.27	75	4.85	105	15.16	287
40	276	0.995	1.824	0.070	1.31	0.120	2.2	0.26	4.7	0.30	5.7	0.53	10.2	1.13	21.9	0.65	22.8	1.13	40	2.43	86	5.19	120	16.21	328
45	310	0.994	2.054	0.074	1.48	0.128	2.5	0.28	5.3	0.32	6.4	0.56	11.5	1.20	24.6	0.69	25.6	1.20	45	2.58	96	5.50	136	17.20	370
50	345	0.994	2.284	0.078	1.64	0.135	2.7	0.29	5.9	0.34	7.1	0.59	12.7	1.27	27.4	0.73	28.5	1.26	50	2.72	107	5.80	151	18.14	411
75	517	0.991	3.436	0.095	2.47	0.165	4.1	0.36	8.9	0.42	10.7	0.72	19	1.56	41	0.89	43	1.55	75	3.34	161	7.12	227	22.25	618
100	689	0.987	4.596	0.11	3.3	0.19	5.5	0.41	11.9	0.48	14.3	0.84	26	1.80	55	1.03	57	1.79	100	3.86	216	8.23	303	25.73	827
125	862	0.984	5.763	0.12	4.1	0.21	6.9	0.46	14.9	0.54	18	0.94	32	2.02	69	1.16	72	2.01	125	4.32	270	9.22	380	28.81	1037
150	1034	0.981	6.938	0.14	5.0	0.23	8.3	0.51	17.9	0.59	22	1.03	39	2.21	83	1.27	87	2.20	151	4.74	325	10.12	458	31.62	1248
175	1207	0.978	8.121	0.15	5.8	0.25	9.7	0.55	20.9	0.64	25	1.11	45	2.39	97	1.37	101	2.38	177	5.13	381	10.94	536	34.20	1461
200	1379	0.975	9.310	0.16	6.7	0.27	11.2	0.59	24.0	0.69	29	1.19	52	2.56	112	1.47	116	2.55	203	5.49	437	11.72	614	36.62	1675
225	1551	0.972	10.508	0.17	7.6	0.29	12.6	0.62	27.1	0.73	33	1.26	59	2.72	126	1.56	131	2.71	229	5.84	493	12.45	693	38.91	1891
250	1724	0.969	11.713	0.18	8.4	0.31	14.1	0.66	30.2	0.77	37	1.33	65	2.88	141	1.65	146	2.86	255	6.16	549	13.14	773	41.08	2108
300	2068	0.962	14.146	0.19	10.2	0.34	17.0	0.72	36.5	0.85	44	1.47	79	3.16	170	1.81	176	3.14	308	6.77	663	14.45	933	45.14	2545
350	2413	0.956	16.609	0.21	12.0	0.36	19.9	0.78	42.8	0.92	52	1.59	93	3.42	199	1.97	207	3.41	362	7.34	779	15.65	1096	48.92	2989
400	2758	0.950	19.104	0.22	13.8	0.39	22.9	0.84	49.3	0.98	60	1.70	107	3.67	229	2.11	238	3.65	416	7.87	896	16.79	1260	52.46	3438
450	3103	0.944	21.630	0.24	15.6	0.41	25.9	0.89	55.8	1.05	67	1.81	121	3.91	259	2.24	270	3.89	471	8.37	1015	17.86	1427	55.82	3892
500	3447	0.938	24.188	0.25	17.4	0.44	29.0	0.94	62.4	1.11	75	1.92	135	4.13	290	2.37	302	4.11	527	8.85	1135	18.89	1596	59.03	4352
600	4137	0.926	29.398	0.28	21.2	0.48	35.3	1.04	75.8	1.22	92	2.11	164	4.56	353	2.62	367	4.53	640	9.76	1379	20.82	1940	65.08	5290
700	4826	0.915	34.734	0.30	25.0	0.53	41.7	1.13	89.6	1.33	108	2.30	194	4.95	417	2.84	433	4.92	756	10.61	1629	22.64	2292	70.74	6250
800	5516	0.903	40.194	0.33	28.9	0.57	48.2	1.22	103.7	1.43	125	2.47	224	5.33	482	3.06	501	5.30	875	11.41	1885	24.35	2652	76.09	7232
900	6205	0.892	45.776	0.35	32.9	0.60	54.9	1.30	118.1	1.52	143	2.64	255	5.68	549	3.26	571	5.65	997	12.18	2147	25.99	3020	81.21	8237
1000	6895	0.882	51.473	0.37	37.0	0.64	61.7	1.38	132.8	1.62	161	2.80	287	6.03	617	3.46	642	5.99	1121	12.92	2414	27.56	3396	86.11	9262
1250	8618	0.857	66.175	0.42	47.6	0.73	79.4	1.56	170.7	1.83	206	3.17	369	6.83	794	3.92	826	6.80	1441	14.65	3104	31.24	4366	97.64	11907
1500	10342	0.836	81.382	0.46	58.6	0.80	97.6	1.73	209.9	2.03	254	3.52	454	7.58	976	4.35	1015	7.54	1772	16.24	3817	34.65	5369	108.28	14644
1750	12066	0.820	96.831	0.51	69.7	0.88	116.2	1.89	249.7	2.22	302	3.84	540	8.27	1162	4.75	1208	8.22	2108	17.72	4542	37.79	6389	118.11	17423
2000	13790	0.809	112.194	0.55	80.8	0.94	134.6	2.03	289.4	2.38	350	4.13	626	8.90	1346	5.11	1400	8.85	2443	19.07	5262	40.68	7402	127.13	20188

Note: 1) The "Z" compressibility correction factor has been calculated assuming 100% Methane. The correction factor has been applied to all the above gas flow rates.  
 2) The minimum flowrates have been corrected for blade angle and gas density

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