

CAPACITY OF A 2" ORIFICE METER

Static Pressure (psig)	0.25" by 2.067 MSCF/Day at		0.50" by 2.067 MSCF/Day at		0.75" by 2.067 MSCF/Day at		1.00" by 2.067 MSCF/Day at		1.25" by 2.067 MSCF/Day at	
	10"	90"	10"	90"	10"	90"	10"	90"	10"	90"
10	6	19	25	74	56	168	102	306	168	503
25	8	24	31	94	71	213	130	390	213	640
50	10	30	40	120	91	273	166	499	273	820
Protect 75	12	36	47	142	108	323	196	589	322	967
100	13	40	54	161	122	366	223	668	366	1097
125	15	45	59	178	135	405	246	739	404	1213
150	16	49	64	193	147	440	268	804	440	1320
175	17	52	69	208	158	473	288	864	473	1420
200	19	56	74	222	168	505	307	922	504	1513
225	20	59	78	235	178	534	325	976	534	1602
250	21	62	82	247	188	563	343	1028	562	1687
300	23	68	90	270	205	616	375	1125	616	1848
350	25	74	97	292	222	666	405	1216	666	1997
400	26	79	104	313	238	713	434	1302	713	2139
450	28	84	111	333	253	758	461	1384	758	2273
500	30	89	117	352	267	801	488	1463	801	2402
550	31	93	123	370	281	843	513	1539	842	2527
600	33	98	129	388	294	883	537	1612	882	2647
650	34	102	135	405	307	922	561	1683	921	2764
700	35	106	140	421	320	960	584	1753	959	2878
750	37	110	146	438	332	997	607	1821	997	2990
800	38	114	151	454	345	1034	629	1887	1033	3099
850	39	118	156	469	356	1069	651	1952	1068	3205
900	41	122	162	485	368	1104	672	2016	1103	3310
950	42	126	167	500	379	1138	693	2078	1138	3413
1000	43	130	171	514	391	1172	713	2140	1171	3514
1050	44	133	176	529	402	1205	734	2201	1205	3614
1100	46	137	181	543	413	1238	753	2260	1237	3712
1150	47	140	186	558	423	1270	773	2319	1270	3809
1200	48	144	191	572	434	1302	792	2377	1301	3904
1250	49	147	195	585	444	1333	812	2435	1333	3998
1300	50	151	200	599	455	1364	830	2491	1363	4090
1350	51	154	204	612	465	1395	849	2547	1394	4182
1400	52	157	208	625	475	1425	867	2601	1424	4272
1450	54	161	213	638	485	1454	885	2655	1453	4360
1480	54	163	215	646	491	1472	896	2687	1471	4413

All flows calculated based on:

Base Pressure = 14.73 psia

Flowing Gas Temperature = 60 degrees F.

Base Temperature = 60 degrees F.

Specific Gravity = 0.600

CAPACITY OF A 4" ORIFICE METER

Static Pressure (psig)	0.50" by 4.026 MSCF/Day at		1.00" by 4.026 MSCF/Day at		1.50" by 4.026 MSCF/Day at		2.00" by 4.026 MSCF/Day at		2.375" by 4.026 MSCF/Day at	
	10"	90"	10"	90"	10"	90"	10"	90"	10"	90"
10	24	73	98	294	224	671	409	1,226	598	1,794
25	31	93	125	374	285	854	520	1,560	761	2,283
50	40	119	160	479	365	1,094	666	1,999	975	2,924
75	47	141	189	566	430	1,291	787	2,360	1,151	3,452
100	53	160	214	642	488	1,463	892	2,675	1,304	3,913
125	59	177	237	710	539	1,618	986	2,958	1,443	4,328
150	64	192	257	772	587	1,761	1,073	3,219	1,570	4,709
175	69	207	277	831	631	1,894	1,154	3,462	1,688	5,065
200	73	220	295	885	673	2,019	1,230	3,691	1,800	5,399
225	78	233	313	938	713	2,138	1,303	3,908	1,906	5,717
250	82	246	329	987	751	2,252	1,372	4,115	2,007	6,021
300	90	269	360	1,081	822	2,465	1,502	4,506	2,197	6,592
350	97	291	390	1,169	888	2,665	1,624	4,871	2,375	7,126
400	104	311	417	1,251	951	2,854	1,739	5,216	2,543	7,630
450	110	331	443	1,330	1,011	3,033	1,848	5,544	2,704	8,111
500	117	350	469	1,406	1,069	3,206	1,953	5,859	2,857	8,571
550	123	368	493	1,478	1,124	3,372	2,054	6,163	3,005	9,016
600	128	385	516	1,549	1,177	3,532	2,152	6,457	3,148	9,445
650	134	402	539	1,617	1,230	3,689	2,247	6,742	3,288	9,863
700	140	419	561	1,684	1,280	3,841	2,340	7,020	3,423	10,270
750	145	435	583	1,749	1,330	3,989	2,430	7,291	3,556	10,667
800	150	451	604	1,813	1,378	4,135	2,519	7,557	3,685	11,055
850	156	467	625	1,875	1,426	4,277	2,606	7,817	3,812	11,436
900	161	482	646	1,937	1,472	4,417	2,691	8,073	3,937	11,810
950	166	497	666	1,997	1,518	4,554	2,775	8,324	4,059	12,177
1000	171	512	685	2,056	1,563	4,689	2,857	8,571	4,179	12,538
1050	175	526	705	2,114	1,607	4,822	2,938	8,814	4,298	12,894
1100	180	540	724	2,172	1,651	4,953	3,018	9,053	4,415	13,244
1150	185	555	743	2,228	1,694	5,082	3,096	9,289	4,530	13,589
1200	189	568	761	2,284	1,736	5,209	3,174	9,521	4,643	13,928
1250	194	582	780	2,339	1,778	5,334	3,250	9,750	4,754	14,263
1300	199	596	798	2,393	1,819	5,458	3,325	9,976	4,865	14,594
1350	203	609	816	2,447	1,860	5,580	3,399	10,198	4,973	14,920
1400	207	622	833	2,499	1,900	5,700	3,473	10,418	5,080	15,241
1450	212	635	850	2,551	1,939	5,818	3,545	10,634	5,186	15,557
1480	214	642	861	2,582	1,963	5,888	3,587	10,762	5,248	15,744

All flows calculated based on:

Base Pressure = 14.73 psia

Flowing Gas Temperature = 60 degrees F.

Base Temperature = 60 degrees F.

Specific Gravity = 0.600

CAPACITY OF A 6" ORIFICE METER

Static Pressure (psig)	1.00" by 6.065 MSCF/Day at		1.50" by 6.065 MSCF/Day at		2.00" by 6.065 MSCF/Day at		3.00" by 6.065 MSCF/Day at		3.625" by 6.065 MSCF/Day at	
	10"	90"	10"	90"	10"	90"	10"	90"	10"	90"
10	98	293	221	662	395	1,186	918	2,755	1,396	4,188
25	124	372	281	842	503	1,509	1,168	3,504	1,776	5,329
50	159	477	360	1,079	644	1,932	1,496	4,489	2,275	6,826
75	188	563	425	1,274	760	2,281	1,767	5,300	2,686	8,059
100	213	638	481	1,444	862	2,586	2,002	6,007	3,045	9,134
125	235	706	532	1,597	953	2,860	2,215	6,644	3,368	10,103
150	256	768	579	1,738	1,037	3,112	2,410	7,230	3,665	10,994
175	275	826	623	1,869	1,116	3,347	2,592	7,776	3,941	11,824
200	294	881	664	1,992	1,190	3,569	2,763	8,290	4,202	12,605
225	311	933	703	2,110	1,260	3,779	2,926	8,778	4,449	13,347
250	327	982	741	2,222	1,326	3,979	3,081	9,243	4,685	14,055
300	358	1,075	811	2,432	1,452	4,357	3,374	10,121	5,130	15,389
350	387	1,162	876	2,629	1,570	4,710	3,647	10,940	5,545	16,635
400	415	1,245	939	2,816	1,681	5,043	3,905	11,715	5,938	17,813
450	441	1,323	998	2,993	1,787	5,360	4,151	12,453	6,311	18,934
500	466	1,398	1,054	3,163	1,888	5,665	4,387	13,160	6,670	20,010
550	490	1,470	1,109	3,327	1,986	5,959	4,614	13,842	7,016	21,047
600	514	1,541	1,162	3,485	2,081	6,243	4,834	14,502	7,350	22,050
650	536	1,609	1,213	3,639	2,173	6,519	5,048	15,143	7,675	23,025
700	558	1,675	1,263	3,790	2,262	6,787	5,256	15,767	7,992	23,975
750	580	1,740	1,312	3,936	2,350	7,050	5,459	16,377	8,301	24,902
800	601	1,803	1,360	4,079	2,436	7,307	5,658	16,973	8,603	25,809
850	622	1,865	1,407	4,220	2,519	7,558	5,853	17,558	8,899	26,697
900	642	1,926	1,453	4,358	2,602	7,805	6,044	18,132	9,190	27,570
950	662	1,986	1,498	4,493	2,683	8,048	6,232	18,696	9,476	28,427
1000	682	2,045	1,542	4,627	2,762	8,287	6,417	19,250	9,757	29,270
1050	701	2,103	1,586	4,758	2,841	8,522	6,599	19,796	10,033	30,100
1100	720	2,160	1,629	4,887	2,918	8,753	6,778	20,333	10,306	30,917
1150	739	2,216	1,671	5,014	2,994	8,981	6,954	20,863	10,574	31,723
1200	757	2,272	1,713	5,140	3,068	9,205	7,128	21,384	10,839	32,516
1250	775	2,326	1,754	5,263	3,142	9,427	7,300	21,899	11,099	33,298
1300	793	2,380	1,795	5,385	3,215	9,645	7,469	22,406	11,356	34,069
1350	811	2,433	1,835	5,505	3,287	9,861	7,635	22,906	11,610	34,830
1400	829	2,486	1,875	5,624	3,358	10,073	7,800	23,399	11,860	35,579
1450	846	2,537	1,913	5,740	3,427	10,282	7,961	23,884	12,106	36,317
1480	856	2,568	1,937	5,810	3,468	10,405	8,057	24,172	12,251	36,754

All flows calculated based on:

Base Pressure = 14.73 psia

Flowing Gas Temperature = 60 degrees F.

Base Temperature = 60 degrees F.

Specific Gravity = 0.600

CAPACITIES OF ROOTS TQM ALUMINUM CASE METERS

Line Pressure (psig)	8C175 & 8C200				Notes
	Minimum Capacity (MSCFH)	Maximum Capacity (MSCFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)	
5	0.06	1.1	1	25	
10	0.07	1.3	2	32	
25	0.11	2.1	3	52	
50	0.19	3.5	4	85	
75	0.26	4.9	6	118	
100	0.33	6.3	8	151	
125	0.41	7.7	10	185	
150	0.48	9.1	12	219	
175	0.56	10.6	13	254	
200	0.63	12.0	15	289	* 8C200 ONLY! *

Line Pressure (psig)	15C175 & 15C200				Notes
	Minimum Capacity (MSCFH)	Maximum Capacity (MSCFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)	
5	0.05	2.0	1	47	
10	0.07	2.5	2	60	
25	0.11	4.0	3	97	
50	0.18	6.6	4	159	
75	0.25	9.2	6	221	
100	0.32	11.8	8	284	
125	0.39	14.5	9	348	
150	0.46	17.1	11	411	
175	0.53	19.8	13	476	
200	0.60	22.5	14	541	* 15C200 ONLY! *

Line Pressure (psig)	2M175			
	Minimum Capacity (MSCFH)	Maximum Capacity (MSCFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)
5	0.04	2.6	1	63
10	0.05	3.3	1	80
25	0.08	5.4	2	129
50	0.13	8.8	3	212
75	0.18	12.3	4	295
100	0.24	15.8	6	379
125	0.29	19.3	7	463
150	0.34	22.9	8	549
175	0.40	26.4	10	635

CAPACITIES OF ROOTS 300 PSIG TQM ALUMINUM METERS

ROOTS 1M300

Line Pressure (psig)	Minimum Capacity (MSCFH)	Maximum Capacity (MSCFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)
10	0.08	1.66	1.99	39.82
25	0.13	2.69	3.22	64.45
50	0.22	4.41	5.29	105.76
75	0.31	6.14	7.37	147.40
100	0.39	7.89	9.47	189.37
125	0.48	9.65	11.58	231.68
150	0.57	11.43	13.72	274.33
175	0.66	13.22	15.87	317.32
200	0.75	15.04	18.04	360.86
300	1.12	22.42	26.90	537.98

ROOTS 3M300

Line Pressure (psig)	Minimum Capacity (MSCFH)	Maximum Capacity (MSCFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)
10	0.17	4.98	3.98	119.45
25	0.27	8.06	6.44	193.34
50	0.44	13.22	10.58	317.28
75	0.61	18.42	14.74	442.20
100	0.79	23.67	18.94	568.12
125	0.97	28.96	23.17	695.05
150	1.14	34.29	27.43	823.00
175	1.32	39.67	31.73	951.97
200	1.50	45.11	36.09	1,082.57
300	2.24	67.25	53.80	1,613.93

CAPACITIES OF ROOT HIGH PRESSURE METERS

ROOTS 1M600 & 1M900

Line Pressure (psig)	1M600 & 1M900				Notes
	Minimum Capacity (MSCFH)	Maximum Capacity (MSCFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)	
10	0.08	1.66	1.99	39.82	
25	0.13	2.69	3.22	64.45	
50	0.22	4.41	5.29	105.76	
75	0.31	6.14	7.37	147.40	
100	0.39	7.89	9.47	189.37	
125	0.48	9.65	11.58	231.68	
150	0.57	11.43	13.72	274.33	
175	0.66	13.22	15.87	317.32	
200	0.75	15.04	18.04	360.86	
300	1.12	22.42	26.90	537.98	
400	1.50	30.05	36.06	721.11	
500	1.90	37.94	45.52	910.46	
600	2.30	46.09	55.31	1106.17	
-	-	-			
700	2.73	54.52	65.42	1308.44	* 1M900 ONLY! *
800	3.16	63.22	75.87	1517.34	* 1M900 ONLY! *
900	3.61	72.20	86.64	1732.70	* 1M900 ONLY! *

ROOTS 3.6M600

Line Pressure (psig)	Minimum Capacity (MSCFH)	Maximum Capacity (M8CFH)	Minimum Capacity (MSCFD)	Maximum Capacity (MSCFD)
10	0.25	5.97	5.97	143.34
25	0.40	9.67	9.67	232.01
50	0.66	15.86	15.86	380.73
75	0.92	22.11	22.11	530.64
100	1.18	28.41	28.41	681.75
125	1.45	34.75	34.75	834.06
150	1.71	41.15	41.15	987.60
175	1.98	47.60	47.60	1,142.37
200	2.26	54.13	54.13	1,299.08
300	3.36	80.70	80.70	1,936.71
400	4.51	108.17	108.17	2,595.98
500	5.69	136.57	136.57	3,277.64
600	6.91	165.93	165.93	3,982.21

TURBINE METER CAPACITIES

Line Pressure (PSIG)	2&3" TPL-9		4" T-18		6" T-30		8" T-60		12" T-140	
	Maximum MSCF/H	Minimum MSCF/H	Maximum MSCF/H	Minimum MSCF/H	Maximum MSCF/H	Minimum MSCF/H	Maximum MSCF/H	Minimum MSCF/H	Maximum MSCF/H	Minimum MSCF/H
0.25	9	0.9	18	1.2	30	1.7	60	3.0	140	5.6
5	12	1.0	24	1.4	40	2.0	79	3.5	185	6.4
10	15	1.2	30	1.5	50	2.2	100	3.9	233	7.2
15	18	1.3	36	1.7	60	2.4	120	4.2	281	7.9
20	21	1.4	42	1.8	70	2.6	141	4.6	329	8.6
25	24	1.5	48	2.0	81	2.8	161	4.9	377	9.2
50	40	1.9	79	2.5	132	3.6	265	6.3	618	11.6
75	55	2.2	111	3.0	184	4.2	369	7.4	861	13.9
100	71	2.5	142	3.4	237	4.8	474	8.4	1,106	15.7
125	87	2.8	174	3.7	290	5.3	580	9.3	1,353	17.4
200	135	3.5	271	4.7	451	6.6	902	11.6	2,106	21.7
300	202	4.4	404	5.7	673	8.0	1,345	14.2	3,139	26.5
400	270	5.1	541	6.6	902	9.3	1,803	16.4	4,207	30.7
500	341	5.8	683	7.4	1,138	10.5	2,276	18.5	5,312	34.5
600	415	6.4	830	8.1	1,383	11.5	2,766	20.4	6,454	38.0
700	491	7.0	981	8.9	1,636	12.6	3,271	22.2	7,633	41.4
800	569	7.7	1,138	9.5	1,897	13.5	3,794	23.9	8,852	44.5
900	650	8.2	1,300	10.2	2,166	14.4	4,332	25.5	10,108	47.6
1000	733	8.8	1,466	10.8	2,443	15.3	4,887	27.1	11,403	50.5
1100	819	9.4	1,737	11.4	2,729	16.2	5,457	28.6	12,733	53.4
1200	906	10.0	1,812	12.0	3,012	17.1	6,041	30.1	14,096	56.2
1300	996	10.5	1,991	12.6	3,319	17.9	6,638	31.6	15,488	58.9
1440	1,123	11.3	2,247	13.4	3,745	19.0	7,489	33.5	17,475	62.6

The capacities shown are based on a pressure base of 14.73 PSIA and a temperature base of 60 degrees F. The average atmospheric pressure is 14.4 PSIA. Supercompressibility is based on 0.60 specific gravity and 0% CO2 and N2.