

AIR FLOW TABLE

Volume of free air in C.F.M. that will flow thru round holes from a receiver into the atmosphere.
Cubic feet of air per minute measured at absolute pressure of 14.7 lbs. per sq. in. and 70°F.

Dia. of Orifice Inches	GAUGE PRESSURE IN RECEIVER - POUNDS																		
	2	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	125	150	200
1/64	.04	.062	.077	.105	.123	.140	.158	.176	.194	.211	.229	.267	.300	.335	.370	.406	.494	.583	.75
1/32	.158	.248	.311	.420	.491	.562	.633	.703	.774	.845	.916	1.06	1.20	1.34	1.48	1.62	1.98	2.32	3.18
3/64	.356	.568	.712	.944	1.10	1.26	1.42	1.58	1.75	1.91	2.06	2.38	2.70	3.0	3.33	3.66	4.44	5.25	6.86
1/16	.633	.993	1.24	1.68	1.96	2.25	2.53	2.81	3.10	3.38	3.66	4.23	4.79	5.36	5.92	6.49	7.90	9.31	12.17
3/32	1.43	2.23	2.80	3.78	4.41	5.05	5.69	6.31	7	7.63	8.25	9.5	10.8	12.0	13.3	14.6	17.8	20.9	27.35
1/8	2.53	3.97	4.98	6.72	7.86	8.98	10.1	11.3	12.4	13.5	14.7	16.9	19.2	21.4	23.7	26.0	31.6	37.3	48.7
3/16	5.7	8.93	11.2	15.2	17.65	20.2	22.8	25.2	28.0	30.5	33.0	38	43.2	48.3	53.2	58.5	71.0	84.0	109.6
1/4	10.1	15.9	19.9	26.9	31.4	35.9	40.5	45.0	49.6	54.1	58.6	67.6	76.7	85.7	94.8	104	126	149.3	195
3/8	22.8	35.7	44.7	60.5	70.7	80.9	91.1	101	112	122	132	152	173	193	213	234	284	336	438
1/2	40.5	63.5	79.6	108	126	144	162	180	198	216	235	271	307	343	379	415	506	596	777
5/8	63.03	99.3	124.5	168	196	225	253	281	310	338	366	423	479	536	592	649	790	932	1216
3/4	91.2	143	179.2	242	283	323	365	405	446	487	528	609	690	771	853	934	1138	1340	1750
7/8	124	195	244.2	329	385	440	496	551	607	662	718	828	939	1050	1161	1272	1549	1825	2382
1	162	254	318.2	430	503	575	648	720	793	865	938	1082	1227	1371	1516	1661	2023	2385	3112
1-1/8	205	321	402.5	544	637	727	820	910	1004	1094	1187	1370	1552	1734	1918	2101	2560	3020	3940
1-1/4	253	397	498	672	784	900	1019	1124	1240	1352	1464	1693	1917	2144	2370	2596	3160	3725	4860
1-3/8	307	482	604	816	954	1091	1230	1367	1505	1643	1780	2054	2330	2607	2880	3153	3840	4525	5910
1-1/2	364	572	716	968	1132	1293	1460	1620	1783	1946	2112	2335	2760	3081	3412	3734	4550	5360	7000
1-3/4	496	780	972	1318	1540	1760	1985	2205	2429	2650	2875	3310	3755	4200	4645	5085	6195	7300	9530
2	648	1015	1274	1720	2120	2300	2594	2880	3173	3460	3752	4330	4915	5480	6070	6650	8100	9540	12450

Table is based on 100% coefficient of flow. For well rounded entrance multiply values by 0.97. For sharp edge orifices a multiplier of 0.65 may be used. This table will give approximate results only. For accurate measurements see Part 1, Section Four, Test standards.

The formula $Q = 14.5 PD^2$, where Q is C.F.M., P is absolute pressure and D is orifice diameter in inches, may be used for any points not given in table. (Applies only above 15 pounds gauge.)