



Since 1966 Serving the Central Valley

**Associated Compressor
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D.O.E. Airmaster + Certified

Compressor Controls Efficiency Guide : (D.O.E. Compressed Air Challenge Reference)

% of Compressor Capacity	Modulation % FL BHP	Geometry % FL BHP	On/Off Line w/1 gal/cfm % FL BHP	On/Off Line w/3 gal/cfm % FL BHP	On/Off Line w/5 gal/cfm % FL BHP	Variable Speed Drive % FL BHP
100	100.00	100.00	100.00	100.00	100.00	100.00
95	98.50	96.00	101.51	100.49	99.95	95.20
90	97.00	92.00	100.44	98.36	97.28	90.40
85	95.50	88.20	99.28	96.11	94.51	85.60
80	94.00	84.70	98.02	93.71	91.61	80.80
75	92.50	81.50	96.64	91.17	88.59	76.00
70	91.00	78.30	95.12	88.46	85.43	71.20
65	89.50	75.40	93.45	85.57	82.10	66.40
60	88.00	73.00	91.58	82.49	78.63	61.60
55	86.50	70.80	89.49	79.19	75.02	56.80
50	85.00	69.00	87.13	75.67	71.25	52.00
45	83.50	64.60	84.44	71.89	67.34	47.20
40	82.00	60.20	81.35	67.80	63.28	42.40
35	80.50	55.80	77.76	63.41	59.28	37.60
30	79.00	51.40	73.53	58.76	54.69	32.80

Geometry Controls: Lift Valves, Spiral Valves, Poppet Valves etc...

DISCHARGE OF AIR THROUGH AN ORIFICE In cubic feet of free air per minute at standard atmospheric pressure of 14.7 lb. Per sq. in. absolute and 70°F ESTIMATED LEAK LOSS CHART

Gauge Pressure before Orifice in Pounds per sq. in.	DIAMETER OF ORIFICE										
	1/64	1/32	1/16	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1"
	Discharge in cubic feet of free air per minute										
20	.123	.491	1.96	7.86	31.4	70.7	126	196	283	385	503
25	.140	.562	2.25	8.98	35.9	80.9	144	225	323	440	575
30	.158	.633	2.53	10.1	40.5	91.1	162	253	365	496	648
35	.176	.703	2.81	11.3	45.0	101	180	281	405	551	720
40	.194	.774	3.10	12.4	49.6	112	198	310	446	607	793
45	.211	.845	3.38	13.5	54.1	122	216	338	487	662	865
50	.229	.916	3.66	14.7	58.6	132	235	366	528	718	938
60	.264	1.06	4.23	16.9	67.6	152	271	423	609	828	1082
70	.300	1.20	4.79	19.2	76.7	173	307	479	690	939	1227
80	.335	1.34	5.36	21.4	85.7	193	343	536	771	1050	1371
90	.370	1.48	5.92	23.7	94.8	213	379	592	853	1161	1516
100	.406	1.62	6.49	26.0	104	234	415	649	934	1272	1661
110	.441	1.76	7.05	28.2	113	254	452	705	1016	1383	1806
120	.476	1.91	7.62	30.5	122	274	488	762	1097	1494	1951
125	.494	1.98	7.90	31.6	126	284	506	790	1138	1549	2023
150	.582	2.37	9.45	37.5	150	338	600	910	1315	1789	2338
200	.761	3.10	12.35	49.0	196	441	784	1225	1764	2401	3136
250	.935	3.80	15.18	60.3	241	542	964	1508	2169	2952	3856
300	.995	4.88	18.08	71.8	287	646	1148	1795	2583	3515	4592

How efficient is your Compressed Air System?