

# Vacuum Pressures Unit Conversions Chart (Absolute)

ver 08-Aug-2017

% Vacuum	ATM (standard atmosphere)	PSIA	Torr (mm Hg)	in HG (inches Mercury)	kPa (SI unit)	bar	mbar
0.00	1.00	14.70	760.00	29.92	101.33	1.01	1013.25
1.40	0.99	14.49	749.36	29.50	99.91	1.00	999.06
1.90	0.98	14.42	745.56	29.35	99.40	0.99	994.00
3.30	0.97	14.21	734.92	28.93	97.98	0.98	979.81
6.60	0.93	13.73	709.84	27.95	94.64	0.95	946.38
7.90	0.92	13.53	699.96	27.56	93.32	0.93	933.20
9.80	0.90	13.26	685.52	26.99	91.40	0.91	913.95
10.00	0.90	13.23	684.00	26.93	91.19	0.91	911.93
20.00	0.80	11.76	608.00	23.94	81.06	0.81	810.60
25.00	0.75	11.02	570.00	22.44	75.99	0.76	759.94
30.00	0.70	10.29	532.00	20.94	70.93	0.71	709.28
33.00	0.67	9.85	509.20	20.05	67.89	0.68	678.88
35.00	0.65	9.55	494.00	19.45	65.86	0.66	658.61
40.00	0.60	8.82	456.00	17.95	60.80	0.61	607.95
45.00	0.55	8.08	418.00	16.46	55.73	0.56	557.29
50.00	0.50	7.35	380.00	14.96	50.66	0.51	506.63
55.00	0.45	6.61	342.00	13.46	45.60	0.46	455.96
60.00	0.40	5.88	304.00	11.97	40.53	0.41	405.30
61.00	0.39	5.73	296.40	11.67	39.52	0.40	395.17
65.00	0.35	5.14	266.00	10.47	35.46	0.35	354.64
68.00	0.32	4.70	243.20	9.57	32.42	0.32	324.24
70.00	0.30	4.41	228.00	8.98	30.40	0.30	303.98
75.00	0.25	3.67	190.00	7.48	25.33	0.25	253.31
80.00	0.20	2.94	152.00	5.98	20.27	0.20	202.65
85.00	0.15	2.20	114.00	4.49	15.20	0.15	151.99
87.00	0.13	1.91	98.80	3.89	13.17	0.13	131.72
88.00	0.12	1.76	91.20	3.59	12.16	0.12	121.59
89.00	0.11	1.62	83.60	3.29	11.15	0.11	111.46
90.00	0.10	1.47	76.00	2.99	10.13	0.10	101.33
92.00	0.08	1.18	60.80	2.39	8.11	0.08	81.06
93.00	0.07	1.03	53.20	2.09	7.09	0.07	70.93
95.00	0.05	0.73	38.00	1.50	5.07	0.05	50.66
96.60	0.03	0.50	25.84	1.02	3.45	0.03	34.45
97.40	0.03	0.38	19.76	0.78	2.63	0.03	26.34
98.70	0.01	0.19	9.88	0.39	1.32	0.01	13.17
100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Perfect vacuum or 100% vacuum is a zero reference pressure. In practice, a perfect vacuum is impossible to obtain.**

**kPa = bar x 100; mbar = bar x 1000**

*It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.*

# Vacuum Pressures Unit Conversions Chart (Relative)

ver 08-Aug-2017

% Vacuum	ATM (standard atmosphere)	PSIG negative gauge	Torr (mm Hg) negative gauge	inches Hg negative gauge	kPa negative gauge	bar negative gauge	mbar negative gauge
0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1.40	0.99	- 0.21	- 10.64	- 0.42	- 1.42	-0.01	- 14.19
1.90	0.98	- 0.28	- 14.44	- 0.57	- 1.93	-0.02	- 19.25
3.30	0.97	- 0.48	- 25.08	- 0.99	- 3.34	-0.03	- 33.44
6.60	0.93	- 0.97	- 50.16	- 1.97	- 6.69	-0.07	- 66.87
7.90	0.92	- 1.16	- 60.04	- 2.36	- 8.00	-0.08	- 80.05
9.80	0.90	- 1.44	- 74.48	- 2.93	- 9.93	-0.10	- 99.30
10.00	0.90	- 1.47	- 76.00	- 2.99	- 10.13	-0.10	- 101.33
20.00	0.80	- 2.94	-152.00	- 5.98	- 20.27	-0.20	- 202.65
25.00	0.75	- 3.67	-190.00	- 7.48	- 25.33	-0.25	- 253.31
30.00	0.70	- 4.41	-228.00	- 8.98	- 30.40	-0.30	- 303.98
33.00	0.67	- 4.85	-250.80	- 9.87	- 33.44	-0.33	- 334.37
35.00	0.65	- 5.14	-266.00	- 10.47	- 35.46	-0.35	- 354.64
40.00	0.60	- 5.88	-304.00	- 11.97	- 40.53	-0.41	- 405.30
45.00	0.55	- 6.61	-342.00	- 13.46	- 45.60	-0.46	- 455.96
50.00	0.50	- 7.35	-380.00	- 14.96	- 50.66	-0.51	- 506.63
55.00	0.45	- 8.08	-418.00	- 16.46	- 55.73	-0.56	- 557.29
60.00	0.40	- 8.82	-456.00	- 17.95	- 60.80	-0.61	- 607.95
61.00	0.39	- 8.96	-463.60	- 18.25	- 61.81	-0.62	- 618.08
65.00	0.35	- 9.55	-494.00	- 19.45	- 65.86	-0.66	- 658.61
68.00	0.32	- 9.99	-516.80	- 20.35	- 68.90	-0.69	- 689.01
70.00	0.30	- 10.29	-532.00	- 20.94	- 70.93	-0.71	- 709.28
75.00	0.25	- 11.02	-570.00	- 22.44	- 75.99	-0.76	- 759.94
80.00	0.20	- 11.76	-608.00	- 23.94	- 81.06	-0.81	- 810.60
85.00	0.15	- 12.49	-646.00	- 25.43	- 86.13	-0.86	- 861.26
87.00	0.13	- 12.79	-661.20	- 26.03	- 88.15	-0.88	- 881.53
88.00	0.12	- 12.93	-668.80	- 26.33	- 89.17	-0.89	- 891.66
89.00	0.11	- 13.08	-676.40	- 26.63	- 90.18	-0.90	- 901.79
90.00	0.10	- 13.23	-684.00	- 26.93	- 91.19	-0.91	- 911.93
92.00	0.08	- 13.52	-699.20	- 27.53	- 93.22	-0.93	- 932.19
93.00	0.07	- 13.67	-706.80	- 27.83	- 94.23	-0.94	- 942.32
95.00	0.05	- 13.96	-722.00	- 28.43	- 96.26	-0.96	- 962.59
96.60	0.03	- 14.20	-734.16	- 28.90	- 97.88	-0.98	- 978.80
97.40	0.03	- 14.31	-740.24	- 29.14	- 98.69	-0.99	- 986.91
98.70	0.01	- 14.50	-750.12	- 29.53	-100.01	-1.00	-1000.08
100.00	0.00	- 14.70	-760.00	- 29.92	-101.33	-1.01	-1013.25

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