



METRIC PRESSURE MEASUREMENT

PRESSURE UNITS CROSS REFERENCE CHART

UNIT	bar	mbar	kbar	Pa	kPa	MPa
1 bar	1	1000	0.001	10 ⁵	100	0.1
1 mbar	0.001	1	10 ⁻⁶	100	0.1	10 ⁻⁴
1 kbar	1000	10 ⁶	1	10 ⁸	10 ⁵	100
1 Pa	10 ⁻⁵	0.01	10 ⁻⁸	1	0.001	10 ⁻⁶
1 kPa	0.01	10	10 ⁻⁵	1000	1	0.001
1 MPa	10	10 ⁴	0.01	10 ⁶	1000	1

psi	atms	Ft. Hd. H ₂ O at 20°C	In H ₂ O	Kg/cm ²	Metres H ₂ O	In. Hg. at 20°C	mm. Hg.	cm. Hg.	bar	Mil-libar (mbar)	kPa
1	0.0680	2.310	27.720	0.0700	0.704	2.043	51.884	5.188	0.0690	68.947	6.895
14.696	1	33.659	407.513	1.0330	10.351	30.019	762.480	76.284	1.0130	1013.0	101.325
0.433	0.0290	1	12.000	0.0300	0.305	0.884	22.452	2.245	0.0300	29.837	2.984
0.036	0.0025	0.833	1	0.0025	0.025	0.074	1.871	0.187	0.0025	2.486	0.249
14.233	0.9680	32.897	394.408	1	10.018	29.054	737.959	73.796	0.9810	980.662	98.066
1.422	0.0970	3.287	39.370	0.0990	1	2.905	73.796	7.379	0.0980	98.066	9.807
0.489	0.0330	1.131	13.575	0.0340	0.345	1	25.400	2.540	0.0340	33.753	3.375
0.019	0.0013	0.045	0.534	0.0014	0.0136	0.039	1	0.100	0.0010	1.329	0.133
0.193	0.0131	0.445	5.340	0.0140	0.1360	0.393	10.000	1	0.0133	13.260	1.326
14.503	0.9870	33.514	402.164	1.0200	10.2110	29.625	752.470	75.247	1	1000.0	100.00
0.014	0.0009	0.033	0.402	0.0010	0.0102	0.029	0.752	0.075	0.001	1	0.100
0.145	0.0098	0.335	4.021	0.0100	0.1020	0.296	7.525	0.752	0.010	10.000	1

1 Pa=1 N/m² 1 kPa=1 kN/m² 1 MPa=1 MN/m²

