

CONVERSION OF PRESSURE UNITS

TO CONVERT FROM TO	psi	mbar	bar	atm	Pa	kPa	MPa	cm H ₂ O @20°C	in H ₂ O @20°C	ft H ₂ O @20°C	mm Hg (Torr) @0°C	in Hg @0°C	kg/cm ²
psi	1	68.9476	.0689476	.0680460	6894.76	6.89476	6.89476 $\times 10^{-3}$	70.433	27.730	2.3108	51.7149	2.03602	.0703069
mbar	.0145038	1	.001	9.86923 $\times 10^{-4}$	100	.100	.0001	1.0215	.40218	.03352	.75006	.0295300	.0010197
bar	14.5038	1000	1	.986923	100000	100	.100	1021.5	402.18	33.52	750.06	29.5300	1.019716
atm	14.6959	1013.25	1.01325	1	101325	101.325	.101325	1035.08	407.511	35.959	760.0	29.9213	1.033227
Pa	1.450 ³⁸ $\times 10^{-4}$.01	.00001	9.86923 $\times 10^{-6}$	1	.001	.000001	.010215	.0040218	3.352 $\times 10^{-4}$	7.5006 $\times 10^{-3}$	2.95300 $\times 10^{-4}$	1.019716 $\times 10^{-5}$
kPa	.145038	10.0	.010	.0098692	1000	1	.001	10.215	4.02118	.3352	7.5006	.295300	.0101972
MPa	145.038	10000	10	9.8692	1000000	1000	1	10215	4021.18	335.2	7500.6	295.300	10.1972
cm H ₂ O @20°C	.14198	.97891	9.7891 $\times 10^{-4}$	9.66105 $\times 10^{-4}$	97.891	.097891	9.7891 $\times 10^{-5}$	1	.3937	.035281	.73424	.028907	9.9821 $\times 10^{-4}$
in H ₂ O @20°C	.036063	2.4864	.0024864	2.45392 $\times 10^{-3}$	248.64	.24864	2.4864 $\times 10^{-4}$	2.5400	1	.083333	1.8650	.073424	.0025354
ft H ₂ O @20°C	.432756	29.8368	.0298368	.294470	2983.68	2.98368	2.98368 $\times 10^{-3}$	30.480	12	1	22.380	.881089	.030425
mm Hg @0°C	.0193368	1.33322	.0013332	.0013158	133.322	.133322	1.33322 $\times 10^{-4}$	1.3619	.53620	.04468	1	.03937	.0013595
in Hg @0°C	.491154	33.8639	.0338639	.0334211	3386.39	3.38639	3.38639 $\times 10^{-3}$	34.593	13.619	1.13491	25.400	1	.0345316
kg/cm ²	14.2233	980.665	.980665	.967842	98060.5	98.0665	.0980665	1001.8	394.41	32.868	735.559	28.959	1

Additional remark: 1 cmH²O = 10 mmH²O

1 Torr = 1 mmHg at 0 °C (1 mmHg = 0.1 cmHg)

1 psi = 1 lb/in²

1 mmAq = 1 mmH²O = 1 mmW.C.

1 cmHg = 10 mmHg

1 kbar = 1000 bar (1 kbar = 100 MPa)

1 Pa = 1 N/m², 1 kPa = 1 KN/m² (1 MPa = 1 MN/m²)