



STRITT & PRIEBE INC.

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PRESSURE CONVERSION CHART

Using the Table

1. Find the units you wish to convert FROM in the left hand column.
2. Find the units you wish to convert TO in the top row.
3. Insert the multiplier shown at the intersection into the following formula:

FROM units x Multiplier = TO units

Example: 100 psi x 6.894757 = 689.475 kPa

TO/ FROM	PSI	inH2O	mmH2O	cmH2O	oz/in2	mbar	bar	mmHg	cmHg	inHg	kg/cm2	kPa	MPa	ftH2O	mH2O	atm
psi	1	27.68068	703.1	70.308927	16	68.95	0.06894757	51.71486	5.171486	2.03602	0.070306958	6.894757	0.0069	2.306723	0.70308927	0.0680460
inH2O	0.03612628	1	25.4	2.54	0.578020	2.488	0.00249	0.0735539	0.187	0.0735539	0.00254219	0.2490819	0.00025	0.08333	0.0254	0.00245825
mmH2O	0.001422	0.0394	1	0.1	0.0227	0.098	0.00098	0.0735	0.00735	0.00289	0.0001	0.0098	0.00001	0.00328084	0.001	0.000097
cmH2O	0.0142229	0.3937	10	1	0.227566	0.98	0.000980634	0.7355372	0.0735	0.0289581	0.00099997	0.980634	0.0001	0.032808	0.01	0.000967814
oz/in2	0.0625	1.73004	43.943	4.394308	1	4.31	0.004309223	3.23218	0.323	0.12725125	0.04394308	0.4309223	0.00043	0.14417	0.04394308	0.004252875
mbar	0.0145	0.4012	10.20	1.020	0.2321	1	0.001	0.75	0.075	0.0295	0.00102	0.1	0.0001	0.03345622	0.00101975	0.000987
bar	14.5038	401.8596	10,197	1019.7466	232.0608	1000	1	750.0626	75	29.53	1.019716	100	0.1	33.4833	10.197466	0.986923
mmHg	0.0193368	0.535255	13.60	1.359554	0.3093888	1.333	0.001333225	1	0.1	0.039370079	0.00135951	0.1333225	0.000133	0.0446046	0.01359554	0.0013157895
cmHg	0.1934	5.358	136.0	13.60	3.10	13.33	0.01333	10	1	0.394	0.0136	1.333	0.00133	0.44604625	0.13595509	0.01316
inHg	0.4911542	13.595484	345.3	34.53253	7.85847	33.86	0.03386389	25.4	2.54	1	0.0345316	3.386389	0.00339	1.132957	0.3453253	0.0334211
kg/cm2	14.223343	393.711806	10,000.3	1000.028	227.57349	980.7	0.98066494	735.5588	73.56	28.95901	1	98.066494	0.0981	32.809312	10.00028	0.967841598
kPa	0.1450377	4.014742	101.97	10.19745	2.320603	10	0.01	7.500610	0.75	0.2952997	0.01019716	1	0.001	0.3345618	0.1019745	0.009869235
MPa	145.04	4019	101,975	10,197	2321	10,000	10	7500	750	295.3	10.2	1000	1	334.56218	101.9748043	9.869
ftH2O	0.433515	12	304.80	30.48	6.93624	29.88981	0.02988981	22.4192	2.24192	0.882646	0.03047912	2.988981	0.002988981	1	0.3048	0.02949896
mH2O	1.42229	39.370079	1000	100	22.7566	980.66494	0.98066494	73.55372	7.35537	2.89581	0.099997	9.8063439	0.0098063439	3.2808399	1	0.0967814
atm	14.696	406.794	10,333	1033.2633	235.136	1013	1.0132535	760	76	29.9213	1.033231	101.32535	0.1013	33.8995	10.332633	1

Temperature Conversion

°F=Degrees Fahrenheit

°C=Degrees Celsius

°R=Degrees Reaumur

°F= (°Cx1.8) +32

°C= (°F-32) x0.5555

°R= (°F-32) x0.4444

°F= (°Rx2.25) +32

°C= (°Rx1.25) (°Cx0.80)

°R = (°C x 0.80)

Hydraulic Ram Conversion

Use the formulas below to convert

$(\text{Tons on ram} \times 2000) / (0.7854 \times \text{dia.}^2) = \text{PSI}$
 $(\text{Dia.}^2 \times 0.7854 \times \text{PSI}) / 2000 = \text{Tons on ram}$

At sea level:

Water boils at 212 °F, 100 °C and 80 °R
 Water freezes at 32 °F, 0 °C and 0 °R