

Conversão de Unidades de Pressão

Dados obtidos do site: < <http://www.ipem.sp.gov.br/5mt/cv2/index.htm> > - Instituto de Pesos e Medidas do Estado de São Paulo

	Pa N/m ²	kPa kN/m ²	MPa MN/m ² N/mm ²	bar	mbar	kgf/cm ² at	psi lbf/pol ²	mmCA mmH ₂ O	cmCA cmH ₂ O	mCA mH ₂ O	polH ₂ O	ftH ₂ O	Torr mmHg	cmHg	polHg	atm
1 Pa = 1 N/m²	1	0.001	0.000001	0.00001	0.01	0.00001	0.000145	0.101972	0.010197	0.000102	0.004015	0.000335	0.007501	0.00075	0.000295	0.00001
1 kPa = 1 kN/m²	1000	1	0.001	0.01	10	0.010197	0.145038	101.971621	10.197162	0.101972	4.014631	0.334553	7.500638	0.750064	0.2953	0.009869
1 MPa = 1 MN/m² = 1 N/mm²	1000000	1000	1	10	10000	10.197162	145.037744	101971.621	10197.1621	101.971621	4014.63076	334.552563	7500.63755	750.06375	295.299889	9.869233
1 bar	100000	100	0.1	1	1000	1.019716	14.503774	10197.1621	1019.71621	10.197162	401.463076	33.455256	750.063755	75.006375	29.5299889	0.986923
1 mbar	100	0.1	0.0001	0.001	1	0.00102	0.014504	10.197162	1.019716	0.010197	0.401463	0.033455	0.750064	0.075006	0.02953	0.000987
1 kgf/cm² = 1 at	98066.5	98.0665	0.098067	0.980665	980.665	1	14.223344	10000	1000	10	393.700787	32.808399	735.561273	73.556127	28.959027	0.967841
1 psi = 1 lbf/pol²	6894.757	6.894757	0.006895	0.068948	68.94757	0.070307	1	703.06955	70.306955	0.70307	27.679904	2.306659	51.715073	5.171507	2.036021	0.068046
1 mmCA = mmH₂O	9.80665	0.00987	0.00001	0.000098	0.098067	0.0001	0.001422	1	0.1	0.001	0.03937	0.003281	0.073556	0.007356	0.002896	0.000097
1 cmCA = cmH₂O	1.42233	1.42233	0.000098	0.000981	0.980665	0.001	0.014223	10	1	0.01	0.393701	0.032808	0.73556	0.073556	0.028959	0.000968
1 mCA = mH₂O	9806.65	9.80665	0.009807	0.098067	98.0665	0.1	1.422334	1000	100	1	39.370079	3.28084	73.556127	7.355613	2.895903	0.096784
1 polH₂O	249.08891	0.249089	0.000249	0.002491	2.490889	0.00254	0.036127	25.4	2.54	0.0254	1	0.083333	1.868326	0.186833	0.073556	0.002458
1 ftH₂O	2989.06692	2.989067	0.002989	0.029891	29.890669	0.03048	0.433528	304.8	30.48	0.3048	12	1	22.419908	2.241991	0.882671	0.0295
1 Torr = 1 mmHg	133.322	0.133322	0.000133	0.001333	1.33322	0.00136	0.019337	13.59506	1.359506	0.013595	0.535239	0.044603	1	0.1	0.03937	0.001316
1 cmHg	1333.22	1.33322	0.001333	0.013332	13.3322	0.013595	0.193367	135.950605	13.59506	0.135951	5.352386	0.446032	10	1	0.3937	0.013158
1 polHg	3386.388	3.386388	0.003386	0.033864	33.86388	0.034532	0.491154	345.315475	34.531547	0.345315	13.595097	1.132925	25.400069	2.540007	1	0.033421
1 atm	101325	101.325	0.101325	1.01325	1013.25	1.033227	14.695949	10332.2745	1033.2274	10.332275	406.782462	33.898538	760.0021	76.00021	29.921261	1

at atmosfera técnica
atm atmosfera física
bar bar
ftH₂O pé de água
kgf/cm² quilograma força por centímetro quadrado
kN/m² quilonewton por metro quadrado
kN/mm² quilonewton por milímetro quadrado
kPa quiloPascal

mbar milibar
mCA metro de coluna d'água
mmCA milímetro de coluna d'água
mmHg milímetro de mercúrio
MPa megaPascal
MN/m² meganewton por metro quadrado
N/m² newton por metro quadrado
N/mm² newton por milímetro quadrado

Pa pascal
polHg polegada de mercúrio
polH₂O polegada de água
psi pressure square per inch
Torr Torricelli

Exemplo:

Converter 15psi para bar

$$15 \text{ psi} = 15 \times 0.068948 = 1.03 \text{ bar}$$