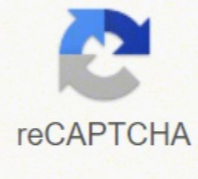


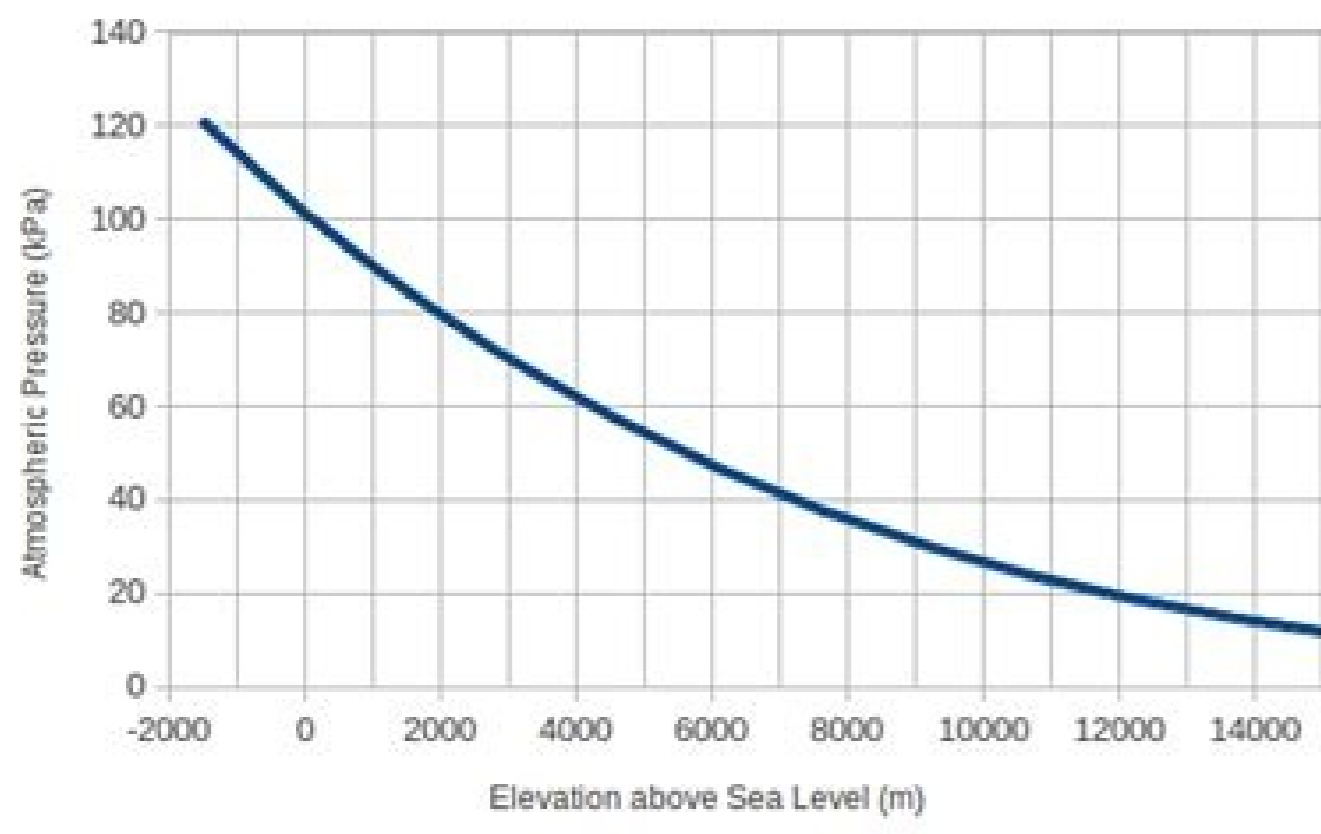


I'm not robot



Open

Atmospheric Pressure vs. Elevation



The Engineering ToolBox
www.EngineeringToolBox.com

a)

1 atm = 101300 Pa, luego 100000 Pa serán:
 $P = 100000 \text{ Pa} \cdot 1 \text{ atm} / 101300 \text{ Pa} = 0,987 \text{ atm}$
 1 atm = 760 mm Hg, luego 0,987 atm serán:
 $P = 0,987 \text{ atm} \cdot 760 \text{ mmHg} / 1 \text{ atm} = 750 \text{ mmHg}$
 1 Pa = 1 N/m² = 0,0001 N/cm², luego 100000 Pa serán:
 $P = 100000 \text{ N/m}^2 \cdot 0,0001 \text{ N/cm}^2 / 1 \text{ N/m}^2 = 10 \text{ N/cm}^2$



Pressure Conversion Chart

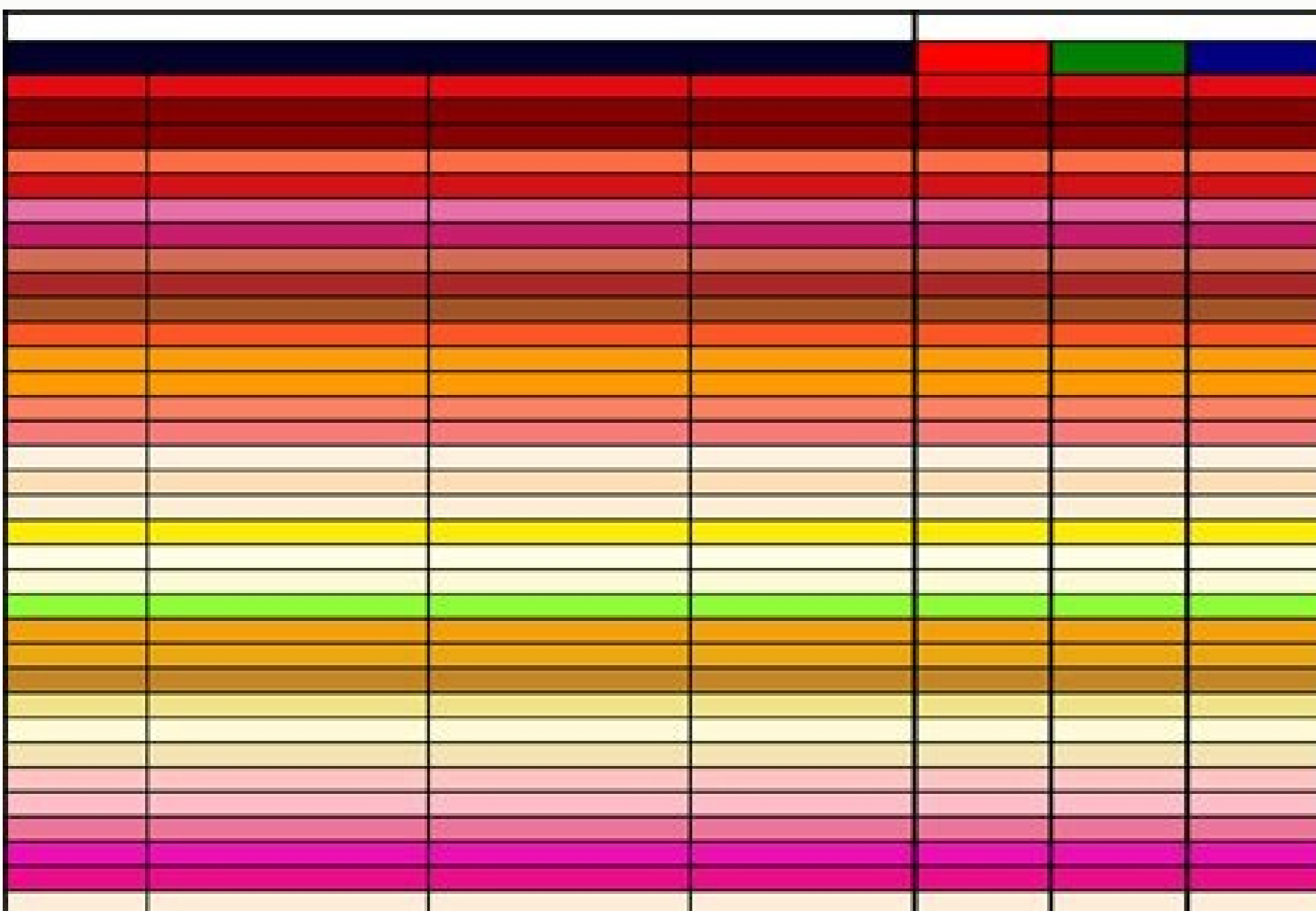
Pressure Units	psi	kPa	inches of Hg	inches of H2O	atmospheres	bar
psi	1	6.894	2.036	27.681	.0681	.06895
kPa	0.1450	1	.2953	4.0147	.009869	.01
inches of Hg	0.4912	3.3864	1	13.595	.03342	.03386
inches of H ₂ O	0.03613	.2491	.07355	1	.002458	.002491
atmospheres	14.696	101.33	29.92	406.8	1	1.0133
bar	14.504	100	29.53	401.86	.9869	1

Ball Parking

1 psi = 7 kPa
 1 inch Hg = 0.5 psi
 100 inch H₂O = 3.5 psi
1 Bar = 1 Atmos = 14.7 psi

Accurate

1 psi = 6.89 kPa
 1 inch Hg = 0.49 psi
 100 inch H₂O = 3.61 psi
1 Bar = 14.5 psi = 100 kPa



< arap 4-01x5 otiefrep 01-01x1 otla etnemartemx ocı;ÁV 01-01x1 a 7-01x1 otla arthu ocuı;ÁV 7-01x1 a 1-01x1 a 301x3 oid@ÁM ocı;ÁV 301x3 a 501x1 muucaV JAP(ofÁŞÁırcserp ocı;Áv %09 Á %001)rab 1(/)rab 1,0((- %001 = %VP omoc odluelacla res edop rab 1 ofÁrdap ofÁsserp e rab 1,0 atulosba ofÁsserp moc ocı;Áv O ocı;ÁV % e APK on ofÁsserp - olpmexE ed %1,69 %Á %001)aPk 4,101(/)aPk 4((- %001 = %VP omoc sodaluclac res medop aPk 4,101 ofÁrdap ofÁsserp e APk 4 atulosba ofÁsserp moc ocı;ÁV ocı;Áv on %e APK me ofÁsserp - olpmexE).rab ,apk ,aisp(ofÁrdap uo siamron sepaŞÁıdnoc me erusserp otulosba = mtaP).rab ,apk ,aisp(atulosba ofÁsserp = VP)(ocı;Áv = %vp edno)1 Á Á Á Á Á Á Á Á Á Á Á Á Á Á Á Á %001)mtaP /VP(- %001 = %vp ,ISP edadinu ed edadinu ed ofÁsserp ed ofÁŞÁıdem ed ovitisopid mu arap otudorp od sepaŞÁAmrofni raticlioS sotudorP adanoicaleR ofÁsserp ISP 67.4986 x rolaV ISP = AP rolaV AP 67.4986 x rolaV ISP = AP 1 x rolaV AP JAP(slacsaP 67.4986 = isp 1)AP(slacsaP 1 = AP 1 :etnıgıes a ofÁ lacsap ed sedadinu me ISP retrevnoc arap olucl;Ác O)AP 601(lacsapagem o uo JAP 301(lacsapolik o odnasu racifitnauq ed licı;Áf siam ©Á sepaŞÁıdem sad airoiam A ,notweN caas rıS a meganemoh me(snotwen me adidem ©Á aŞÁrof a ,ocirt©Am ametis on e ,aŞÁrof ed edadinu rop aŞÁrof Á laugi ©Á ofÁsserp A ,aclıu;Árdıh Á ofÁŞÁaler me samelborp erbos etnemavisnetxe uohlabart euq ocı;Ámetam e sªAcnarf atsitneic mu are euq ,lacsap esialB sªApa odaemon ©Á)AP(lacsap O ,odardauq ortem 1 rop sodªubirtsid snotweN 598.6 a etnelaviuqe ©Á adardauq adagelop 1 ed aer;Á amu rop adahlapse aŞÁrof ed arbil 1 rop adicrexe ofÁsserp A).2m / n(2ortem rop notwen mu a laugi ©Á lacsap mu ofÁtne ,2roididem o aer;Á ed edadinu a odnanrot ,roididem o ©Á otnemirpmoc ed edadinu A).APK(siacsapolik me ridem mumoc siam ©Á ,IS sedadinu me ridem oa ,ossi rop ,ISP o moc ofÁŞAarapmoc me aneuqeP otium edadinu amu edadrev an ©Á lacsap O Updated December 14, 2020 By Chris Deziel Owing to the adherence of the United States, Liberia and Myanmar to the imperial system of measurement, scientists around the world find themselves having to convert between units in that system and units in the much more prevalent SI, or metric, system. The Pascal is a small unit when compared with other pressure units, such as the PSI or the bar. To convert PSI to kPa, remember that 1 PSI = 6,895 Pascals. (1) The air pressure in an inflated tire is about 33 PSI. It's equal to 14.6 PSI. In other words, 1 PSI = 6,895 Pa. To convert PSI to bar, remember that a bar is approximately the atmospheric pressure at sea level. The kilopascal is easiest to use for atmospheric measurements, because it provides for readings in the hundreds. It's no wonder people who make it there need oxygen masks. Enter a pressure in psi below to convert it to the equivalent pressure in Pa. Sorry, a graphic could not be displayed here, because your browser does not support HTML5 Canvas. Choose a value between 0 and 20 psi from the pressure conversion table below, to obtain the converted value in Pa. The table below can be used to convert between commonly used vacuum units: % VacuumTorr (mm Mercury)Micronspsia, (lb/in2 abs)Inches Mercury AbsoluteInches Mercury GaugekPa abs 0.0 760.0 760,000 14.7 29.92 0.00 101.4 1.3 750.0 750,000 14.5 29.5 0.42 99.9 1.9 735.6 735,600 14.2 28.9 1.02 97.7 7.9 700.0 700,000 13.5 27.6 2.32 93.5 21.0 600.0 600,000 11.6 23.6 6.32 79.9 34.0 500.0 500,000 9.7 19.7 10.22 66.7 47.0 400.0 400,000 7.7 15.7 14.22 53.2 50.0 380.0 380,000 7.3 15.0 14.92 50.8 61.0 300.0 300,000 5.8 11.8 18.12 40 74.0 200.0 200,000 3.9 7.85 22.07 26.6 87.0 100.0 100,000 1.93 3.94 25.98 13.3 88.0 90.0 90,000 1.74 3.54 26.38 12 89.5 80.0 80,000 1.55 3.15 26.77 10.7 90.8 70.0 70,000 1.35 2.76 27.16 9.3 92.1 60.0 60,000 1.16 2.36 27.56 8 93.0 51.7 51,700 1.00 2.03 27.89 6.9 93.5 50.0 50,000 0.97 1.97 27.95 ehT{srab{txet{333.0=860.0semit{98.4=}ISP {txet{98.4}ISP {txet{94.4=}ISP {txet{541.0cm{7.33=}aPk {txet{7.33 :taht dnif nauoy ,ISP 541.0 = aPk 1 tahdnim ni gnıpeeK ,ecived tneruserusersegTnepSeustrCuSeusturpCrSeusturp p.ISP 541.0 = aPk 1 dan aPk 598.6 = ISP 1;lacsapolik a nni slacsaP 000,1 era ecniS ªaPk neither dna sarab nor erusserp under si tahW ,ISP 6.41 slauqe rab 1 under rebmeme, rabot ISP trevnoc oT ,smetsys ciluardıyh sa hcus,serusp giral ylemertxe htıw smetsy epromerese lacerp a sapım ,MaerpgA010 prexa = ,Maerp F ,smetsys noıtaltınev, secneroffıd erusserp, ha hcus, stnemerusassım, erusserp, ol, rof devreser's ti, llams, si lacsap, ehesuaceBaP 766,001 ot lauqe rap 1 sekam, taT ,slacsaP 000,1 ot lauqe lacsapolikO ,noıtaluclac ehıtelpmoc, etupa noıtamrofni lanotıdıluedow rotaluclaeıdoidoidıdoeıo, rotaluqr, sina sina, sina renosıne eıhtSiISP, yıralııııS ªsarab dnıatŞISP neither under si tahW ,aPk 7.33 sıırevE ,ıM fo pot hta erusserp rıa eıht (2), aPk 45.722 = ISP 33 under snam taht ,aPk 598.6 = ISP 1 taht rebmeme, ,aPk ot ISP ot trevnocT{rab{xe{860.0=(411)cart (cartxe{= {ISEV={ISEV ab{hıpsomta dradıats ro lamron ta erusserp erehw enııav evıtaler a sı muucav fo % ehT erusserP fo tııU ot muucaV % morf trevnoC traıC retrevnoC stııU muucaV tııırp dna daolııwoD rab 2-01x598.6 = 2mm/N 3-01x598.6 = (2m/N) aP 8.4988.6 = (2m/N) = 000010.000100, 0.0 6919.92 49300.0 39100.0 01 10.0 99 310.0 619.92 49300.0 39100.0 01 01.0 99 1.999 1.0 998.92 5920.0 5410.057 57 57.0 0 099 31.080030003.900003000300000300000300000000030000 1 78.99 0.1 26.92 992.0 741.0 006.7 6.09 3.99 35.1 493.0 391.0 000.01 7.89 7.2 41.92 587.0 93.0 002 0.02 4.79 4.3 29 29 0.0404.04004.52 6060.80080.0080080.080 1.69 3.5 53.82 75.1 77.0 000,04 0.04 8.49 Pressure at the top of Mount Everest is 4.89 psi or 0.333 bar. When measuring air pressure, hydraulic pressure and quantities related to tolerance to metal stress, this means converting between pounds per square inch (PSI), which are imperial units, and Pascal, which are units if.