

Conversion Table of commonly used pressure units SI Units - Engineering units (based on the metre)

		SI units						Engineering units						
		to	bar	mbar	µbar	Pa	kPa	MPa	mmHg	mmWS	mWS	kp/mm ²	kp/cm ²	atm
		from												
SI units	1 bar	1	10 ³	10 ⁶	10 ⁵	100	0.1		750.064	10.1972 · 10 ³	10.1972	10.1972 · 10 ⁻³	1.01972	0.986923
	1 mbar	10 ⁻³	1	10 ³	100	0.1	0.1 · 10 ⁻³		750.064 · 10 ⁻³	10.1972 · 10 ⁻³	10.1972 · 10 ⁻³	10.1972 · 10 ⁻⁶	1.01972 · 10 ⁻³	0.986923 · 10 ⁻³
	1 µbar	10 ⁻⁶	10 ⁻³	1	0.1	0.1 · 10 ⁻³	0.1 · 10 ⁻⁶		750.064 · 10 ⁻⁶	10.1972 · 10 ⁻³	10.1972 · 10 ⁻⁶	10.1972 · 10 ⁻⁹	1.01972 · 10 ⁻⁶	0.986923 · 10 ⁻⁶
	1 Pa	10 ⁻⁵	0.01	10	1	10 ⁻³	10 ⁻⁶		7.50064 · 10 ⁻³	101.972 · 10 ⁻³	101.972 · 10 ⁻⁶	101.972 · 10 ⁻⁹	10.1972 · 10 ⁻⁶	9.86923 · 10 ⁻⁶
	1 kPa	0.01	10	10 · 10 ³	10 ³	1	10 ⁻³		7.50064	101.972	101.972 · 10 ⁻³	101.972 · 10 ⁻⁶	10.1972 · 10 ⁻³	0.986923 · 10 ⁻³
	1 MPa	10	10 · 10 ³	10 · 10 ⁶	10 ⁶	10 ³	1		7.50064 · 10 ³	101.972 · 10 ³	101.972 · 10 ³	101.972 · 10 ³	10.1972	9.86923
Engineering units	1 mmHg	1.33322 · 10 ⁻³	1.33322	1.33322 · 10 ³	133.322	133.322 · 10 ⁻³	133.322 · 10 ⁻⁶	1		13.5951	13.5951 · 10 ⁻³	13.5951 · 10 ⁻⁶	1.35951 · 10 ⁻³	1.31579 · 10 ⁻³
	1 mmWS	98.0665 · 10 ⁻⁶	98.0665 · 10 ⁻³	98.0665	9.80665	9.80665 · 10 ⁻³	9.80665 · 10 ⁻⁶	73.5561 · 10 ⁻³	1	10 ⁻³	10 ⁻⁶	0.1 · 10 ⁻³	96.7841 · 10 ⁻⁶	
	1 mWS	98.0665 · 10 ⁻³	98.0665	98.0665 · 10 ³	9.80665	9.80665 · 10 ³	9.80665 · 10 ⁻³	73.5561	10 ³	1	10 ⁻³	0.1	96.7841 · 10 ⁻³	
	1 kp/mm	98.0665	98.0665 · 10 ³	98.0665 · 10 ⁶	9.80665 · 10 ⁶	9.80665 · 10 ³	9.80665	73.5561 · 10 ³	10 ⁶	10 ³	1	100	96.7841	
	1 kp/cm	0.980665	0.980665 · 10 ³	0.980665 · 10 ⁶	98.0665 · 10 ³	98.0665 · 10 ⁶	98.0665 · 10 ⁻³	735.561	10 · 10 ³	10	0,01	1	0.967841	
	1 atm	1.01325	1.01325 · 10 ³	1.01325 · 10 ⁶	101.325 · 10 ³	101.325 · 10 ⁶	101.325 · 10 ⁻³	760	10.3323 · 10 ³	10.3323	10.3323 · 10 ³	1.03323 · 10 ³	1.03323	1

- Corresponding pressure units:
- 1 Pa = 1 N/m²
 - 1 hPa = 1 mbar
 - 1 mmHg = 1 Torr
 - 1 kp/cm² = 1 at (atü)

SI units - Engineering units (based on the foot)

		SI units						Engineering units				
		to	bar	mbar	µbar	Pa	kPa	MPa	psi	ft H ₂ O	in. H ₂ O	in. Hg
		from										
SI units	1 bar	1	10 ³	10 ⁶	10 ⁵	100	0.1		14.50377	33.4553	401.463	29.52998
	1 mbar	10 ⁻³	1	10 ³	100	0.1	0.1 · 10 ⁻³		14.50377 · 10 ⁻³	33.4553 · 10 ⁻³	401.463 · 10 ⁻³	29.52998 · 10 ⁻³
	1 µbar	10 ⁻⁶	10 ⁻³	1	0.1	0.1 · 10 ⁻³	0.1 · 10 ⁻⁶		14.50377 · 10 ⁻⁶	33.4553 · 10 ⁻⁶	401.463 · 10 ⁻⁶	29.52998 · 10 ⁻⁶
	1 Pa	10 ⁻⁵	0.01	10	1	10 ⁻³	10 ⁻⁶		0.1450377 · 10 ⁻³	0.334553 · 10 ⁻³	4.01463 · 10 ⁻³	0.2952998 · 10 ⁻³
	1 kPa	0.01	10	10 · 10 ³	10 ³	1	10 ⁻³		0.1450377	0.334553	4.01463	0.2952998
	1 MPa	10	10 · 10 ³	10 · 10 ⁶	10 ⁶	10 ³	1		0.1450377 · 10 ³	0.334553 · 10 ³	4.01463 · 10 ³	0.2952998 · 10 ³
Engineering units	1 psi	68.94757 · 10 ⁻³	68.94757	68.94757 · 10 ³	6.894757 · 10 ³	6.894757	6.894757 · 10 ⁻³	1		2.30666	27.6799	2.036020
	1 ft H₂O	29.8907 · 10 ⁻³	29.8907	29.8907 · 10 ³	2.98907 · 10 ³	2.98907	2.98907 · 10 ⁻³	433.5275 · 10 ⁻³	1	12	0.8826709	
	1 in. H₂O	2.49089 · 10 ⁻³	2.49089	2.49089 · 10 ³	0.249089 · 10 ³	0.249089	0.249089 · 10 ⁻³	36.12729 · 10 ⁻³	83.3333 · 10 ⁻³	1	73.55591 · 10 ⁻³	
	1 in. Hg	33.86389 · 10 ⁻³	33.86389	33.86389 · 10 ³	3.386389 · 10 ³	3.386389	3.386389 · 10 ⁻³	0.4911542	1.132925	13.59510	1	

- Corresponding pressure units:
- 1 Pa = 1 N/m²
 - 1 psi = 1 lbf/in.²
 - 1 mmHg = 1 Torr
 - 1 kgf/cm² = 1 at