

Pressure Unit Conversion Chart

bar · psi · kPa · MPa · mmHg · kgf/cm² · atm — quick reference by MANOGAUGE

Pressure Unit Conversion Table

Read as: **1 [row unit] = value [column unit]**.

=	bar	psi	kPa	MPa	mmHg	kgf/cm ²	atm
1 bar	1	14.5038	100	0.1	750.06	1.01972	0.98692
1 psi	0.068948	1	6.89476	0.0068948	51.7149	0.070307	0.068046
1 kPa	0.01	0.145038	1	0.001	7.50062	0.0101972	0.0098692
1 MPa	10	145.038	1000	1	7500.6	10.1972	9.86923
1 mmHg	0.00133322	0.0193368	0.133322	0.000133322	1	0.00135951	0.00131579
1 kgf/cm²	0.980665	14.2233	98.0665	0.0980665	735.559	1	0.967841
1 atm	1.01325	14.6959	101.325	0.101325	760	1.03323	1

Quick reference: 1 bar = 14.50 psi = 100 kPa = 0.1 MPa = 750.06 mmHg = 1.0197 kgf/cm² · 1 MPa = 10 bar = 145 psi · 1 psi = 6.895 kPa · 1 kgf/cm² = 0.98 bar = 14.22 psi.

Handy Formulas

- psi = bar × 14.5038 | bar = psi × 0.068948 | kPa = psi × 6.89476 | psi = kPa × 0.145038
- bar = kPa ÷ 100 | MPa = bar ÷ 10 | mmHg = bar × 750.06 | kgf/cm² = bar × 1.01972

Common Pressure Gauge Ranges (multi-unit)

bar	psi	kPa	MPa	bar	psi	kPa	MPa
0–1	14.5	100	0.1	0–40	580	4000	4
0–1.6	23.2	160	0.16	0–60	870	6000	6
0–2.5	36.3	250	0.25	0–100	1450	10000	10
0–4	58	400	0.4	0–250	3626	25000	25
0–6	87	600	0.6	0–400	5802	40000	40
0–10	145	1000	1	0–600	8702	60000	60
0–16	232	1600	1.6	0–1000	14504	100000	100
0–25	363	2500	2.5				

Tip: choose a range so the working pressure sits around **2/3 of full scale** (working pressure × 1.33). See "How to Select a Pressure Gauge" at www.manogauge.com.

About MANOGAUGE

MANOGAUGE (Zhejiang Xinzhongxin Instrument Technology Co., Ltd.) — a National High-Tech pressure gauge manufacturer in China: stainless steel, liquid-filled, digital, diaphragm, tire, medical and explosion-proof gauges, with CE/PED/ATEX/FDA and OEM/ODM service. More & quotes: www.manogauge.com | sales@manogauge.com. Free to share or cite — please keep the source link to www.manogauge.com.