

Conversion table

Volumetric unit	Volumetric units						
	Cubic centimeter	Fluid Ounce	Pound water	Litre	US Gallon	Cubic foot	Cubic meter
Cubic centimeter	•	0.034	2.2x10 ³	0.001	2.64x10 ⁻⁴	3.53x10 ⁻⁵	1.0x10 ⁻⁶
Fluid Ounc	29.4	•	0.065	0.030	7.81x10 ⁻³	1.04x10 ⁻³	2.96x10 ⁻⁵
Pound water	454	15.4	•	0.454	0.12	0.016	4.54x10 ⁻⁴
Litre	1,000	33.8	2.2	•	0.264	0.035	0.001
US Gallon	3.785	128	8.34	3.785	•	0.134	3.78x10 ⁻⁴
Cubic foot	28.320	958	62.4	28.3	7.48	•	0.028
Cubik meter	1.0x106	3.38x10 ⁴	2,202	1,000	264	35.3	•

Linear unit	Linear units						
	µm	Micron	Millimeter	Centimeter	Inch	Foot	Meter
µm	•	0.039	0.001	1.0x10 ⁻⁴	3.94x10 ⁻⁴		
Micron	25.4	•	2.54x10 ⁻²	2.54x10 ⁻³	0.001	8.33x10 ⁻⁵	
Millimeter	1,000	39.4	•	0.10	0.0394	3.28x10 ⁻³	0.001
Centimeter	10,000	394	10	•	0.394	0.033	0.01
Inch	2.54x10 ⁴	1,000	25.4	2.54	•	0.083	0.0254
Foot	3.05x10 ⁵	1.2x10 ⁴	305	30.5	12	•	0.305
Meter	1.0x10 ⁶	3.94x10 ⁴	1,000	100	39.4	3.28	•

Liquid pressure	Liquid pressure						
	Lb/In ² (psi)	Ft Water	Kg/Cm ²	Atmosphere	Bar	Inch Mercury	kPa (kilopascal)
Lb/In ² (psi)	•	2.31	0.070	0.068	0.069	2.04	6.895
Ft water	0.433	•	0.030	0.029	0.030	0.882	2.99
Kg/Cm ²	14.2	32.8	•	0.968	0.981	29.0	98
Atmosphere	14.7	33.9	1.03	•	1.01	29.9	101
Bar	14.5	33.5	1.02	0.987	•	29.5	100
Inch Mercury	0.491	1.13	0.035	0.033	0.034	•	3.4
kPa (kilopascal)	0.145	0.335	0.01	0.009	0.01	0.296	•

Conversion factors

Volume	U.S. gallon = 3.785 litre = 0.1337 ft ³ = .003785 m ³ 1 ft ³ = 0.02832 m ³ = 7.48 U.S. gallons
Pressure	1 psi = 6895 N/m ² = 6,895 Pa = .069 bar = .069 Kg/cm ² 1 in Hg = 25.4 mm Hg = .4912 psi = 3,386 N/m ² 1 in H ₂ O = 25.4 mm H ₂ O = .0361 psi = 249.1 N/m ² 1 atmosphere = 14.7 psi = 29.92 in Hg = 760 mm Hg = 101.325 kN/m ² 1 bar = 14.504 psi = 100 kN/m ² = 1.02 Kg/cm ² 1 foot head (water) = .433 psi
Flow velocity	1 U.S. gallon per minute = 0.1337 ft ³ /min = 3.785 l/min 1 ft ³ /sec. = .02832 m ³ /sec = 28.32 l/sec
Length	1 in = 25.4 mm 1 ft = .3048 m 1 mile = 1.609 km