

# Conversion Tables

## Pressure

(‘FROM’) Multiply Number of

by	lb/in <sup>2</sup> (psi)	Bars	In of H <sub>2</sub> O (4° C)	In of Hg (0° C)	mm of Hg torr	pascals	Atmos	Dynes/ cm <sup>2</sup>	Kgrams/ meter <sup>2</sup>
lb/in <sup>2</sup> (psi)	1	14.504	3.6127 X 10 <sup>-2</sup>	0.4912	1.934 X 10 <sup>-2</sup>	1.4503 X 10 <sup>-4</sup>	14.6956	1.4504 X 10 <sup>-5</sup>	1.423 X 10 <sup>-3</sup>
Bars	6.8948 X 10 <sup>-2</sup>	1	2.491 X 10 <sup>-3</sup>	3.3864 X 10 <sup>-2</sup>	1.333 X 10 <sup>-3</sup>	10 <sup>-5</sup>	1.01325	10 <sup>-6</sup>	9.0867 X 10 <sup>-5</sup>
In of H <sub>2</sub> O (4° C)	27.68	401.48	1	13.60	0.5354	4.014 X 10 <sup>-3</sup>	406.8	4.0148 X 10 <sup>-4</sup>	3.937 X 10 <sup>-2</sup>
In of Hg (0° C)	2.036	29.53	7.355 X 10 <sup>-2</sup>	1	3.937 X 10 <sup>-2</sup>	2.953 X 10 <sup>-4</sup>	29.9213	2.953 X 10 <sup>-5</sup>	2.896 X 10 <sup>-3</sup>
mm of Hg torr	51.715	750.06	1.868	25.4	1	7.502 X 10 <sup>-3</sup>	760	7.5006 X 10 <sup>-4</sup>	7.3558 X 10 <sup>-2</sup>
Pascals	6.8948 X 10 <sup>3</sup>	1 X 10 <sup>5</sup>	2.491 X 10 <sup>2</sup>	3.386 X 10 <sup>3</sup>	1.333 X 10 <sup>2</sup>	1	1.01325 X 10 <sup>5</sup>	10 <sup>-1</sup>	9.8067
Atmos	0.068046	9.86923 X 10 <sup>-1</sup>	2.458 X 10 <sup>-3</sup>	3.34207 X 10 <sup>-2</sup>	1.316 X 10 <sup>-3</sup>	9.869 X 10 <sup>-6</sup>	1	9.86923 X 10 <sup>-7</sup>	9.678 X 10 <sup>-5</sup>
Dynes/ cm <sup>2</sup>	6.8948 X 10 <sup>4</sup>	10 <sup>6</sup>	2.491 X 10 <sup>3</sup>	3.386 X 10 <sup>4</sup>	1.333 X 10 <sup>3</sup>	10	1.01325 X 10 <sup>6</sup>	1	98.067
Kgrams/ meter <sup>2</sup>	7.0306 X 10 <sup>2</sup>	1.0197 X 10 <sup>4</sup>	25.40	345.3	13.59	1.019 X 10 <sup>-1</sup>	1.033227 X 10 <sup>4</sup>	1.0197 X 10 <sup>-2</sup>	1

(‘TO’) To Obtain

## Load

Multiply Number of

by	Pound	Grams	Newton	Dyne
Pound	1	2.205 X 10 <sup>-3</sup>	.2248	2.248 X 10 <sup>6</sup>
Grams	453.6	1	102.0	1.020 X 10 <sup>3</sup>
Newton	4.448	9.807 X 10 <sup>-3</sup>	1	1.0 X 10 <sup>5</sup>
Dyne	4.448222 X 10 <sup>5</sup>	980.665	1.0 X 10 <sup>5</sup>	1

TORQUE	N-m
1 oz-in	7.06 X 10 <sup>-3</sup>
1 lb-in	0.113
1 lb-ft	1.3558
1 kg-m	9.806
1 dyne-cm	1.00 X 10 <sup>-7</sup>

To Obtain

ACCELERATION
1g = 9.806650 m/s <sup>2</sup> = 9.81 ≠ 10

## Temperature

°C = (°F - 32)/1.8
°F = (1.8 x °C) + 32

LINEAR DISPLACEMENT	
inch	SI unit
0.01	0.254 mm
0.1	2.54 mm
1.0	2.54 cm
1.0	25.4 mm
2.0	50.8 mm
3.0	76.2 mm
4.0	101.6 mm
5.0	127.0 mm
6.0	152.4 mm
7.0	177.8 mm
8.0	203.2 mm
9.0	228.6 mm
10.0	254.0 mm
1 ft	0.3048 m
1 yd	0.9144 m

METRIC EQUIVALENTS Linear Measure	
1 centimeter	0.3937 inch
1 inch	2.54 centimeters
1 foot	0.3048 meter
1 meter	38.37 inches...1.0936 yds.
1 yard	0.9144 meter
1 rod	5.029 meters
1 kilometer	0.621 mile
1 miles	1.609 kilometers

WEIGHTS	
1 gram	0.03527 ounce
1 ounce	28.35 grams
1 kilogram	2.2046 pounds
1 pound	0.4536 kilogram
1 metric ton	0.98421 English ton
1 English ton	1.016 metric ton

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