

# 19.2



## ENGINEERING INFORMATION - INCH TO MILLIMETER CONVERSIONS & BOLT COMPARISONS

Rev. 4-99 Shaded area indicates changes

### Conversion of inches (in.) to millimeters (mm)

in.	mm <sup>a</sup>	in.	mm <sup>a</sup>	in.	mm <sup>a</sup>	in.	mm <sup>a</sup>
.0001	0.00254	.001	0.0254	.01	0.254	.1	2.54
.0002	0.00508	.002	0.0508	.02	0.508	.2	5.08
.0003	0.00762	.003	0.0762	.03	0.762	.3	7.62
.0004	0.01016	.004	0.1016	.04	1.016	.4	10.16
.0005	0.01270	.005	0.1270	.05	1.270	.5	12.70
.0006	0.01524	.006	0.1524	.06	1.524	.6	15.24
.0007	0.01778	.007	0.1778	.07	1.778	.7	17.78
.0008	0.02032	.008	0.2032	.08	2.032	.8	20.32
.0009	0.02286	.009	0.2286	.09	2.286	.9	22.86

in.	0	1	2	3	4	5	6	7	8	9
	Millimeters <sup>a</sup>									
0	-	25.4	50.8	76.2	101.6	127.0	152.4	177.8	203.2	228.6
10	254.0	279.4	304.8	330.2	355.6	381.0	406.4	431.8	457.2	482.6
20	508.0	533.4	558.8	584.2	609.6	635.0	660.4	685.8	711.2	736.6
30	762.0	787.4	812.8	838.2	863.6	889.0	914.4	939.8	965.2	990.6
40	1016.0	1041.4	1066.8	1092.2	1117.6	1143.0	1168.4	1193.8	1219.2	1244.6
50	1270.0	1295.4	1320.8	1346.2	1371.6	1397.0	1422.4	1447.8	1473.2	1498.6
60	1524.0	1549.4	1574.8	1600.2	1625.6	1651.0	1676.4	1701.8	1727.2	1752.6
70	1778.0	1803.4	1828.8	1854.2	1879.6	1905.0	1930.4	1955.8	1981.2	2006.6
80	2032.0	2057.4	2082.8	2108.2	2133.6	2159.0	2184.4	2209.8	2235.2	2260.6
90	2286.0	2311.4	2336.8	2362.2	2387.6	2413.0	2438.4	2463.8	2489.2	2514.6
100	2540.0	-	-	-	-	-	-	-	-	-

a= Exact Figure

**EXAMPLE: Convert 9.156 inches to millimeters**

- 9.000 inches = 228.6000 millimeters
- .100 inches = 2.5400 millimeters
- .050 inches = 1.2700 millimeters
- .006 inches = 0.1524 millimeters
- 9.156 inches = 232.5624 millimeters (Rounded to 232.56 mm)

### Metric & Imperial Bolt Comparison

METRIC	BOLT
M12	= 0.47
M16	= 0.63
M20	= 0.79
M24	= 0.95
M27	= 1.06
M30	= 1.18
M33	= 1.30
M36	= 1.42
M39	= 1.54
M45	= 1.77
M52	= 2.05

IMPERIAL	BOLT
1/2	= 12.70
5/8	= 15.88
3/4	= 19.05
7/8	= 22.23
1	= 25.40
1-1/8	= 28.58
1-1/4	= 31.75
1-3/8	= 34.93
1-1/2	= 38.10
1-3/4	= 44.45
2	= 50.8