

CONVERSION TABLES

LIQUID WEIGHTS and MEASURES		
To Convert	To	Multiply By
Gallons	Liters	3.7853
Gallons	Cu. Inches	231
Gallons	Cu. Feet	0.1337
Gallons	Cu. Meters	0.00379
Gallons	Lbs. of Water	8.339
Liters	Gallons	0.26418
Liters	Cu. Inches	61.025
Liters	Cu. Feet	0.0353
Liters	Cu. Meters	0.001
Liters	Lbs. of Water	2.202
Cu. Inches	Gallons	0.00433
Cu. Inches	Liters	0.01639
Cu. Inches	Cu. Feet	0.00058
Cu. Inches	Cu. Meters	0.000016
Cu. Inches	Lbs. of Water	0.0362
Cu. Feet	Gallons	7.48052
Cu. Feet	Liters	28.316
Cu. Feet	Cu. Inches	1728
Cu. Feet	Cu. Meters	0.0283
Cu. Feet	Lbs. of Water	62.371
Cu. Meters	Gallons	264.17
Cu. Meters	Liters	999.972
Cu. Meters	Cu. Inches	61023.74
Cu. Meters	Cu. Feet	35.3145
Cu. Meters	Lbs. of Water	2202.61
Lbs. of Water	Gallons	0.11992
Lbs. of Water	Liters	0.45419
Lbs. of Water	Cu. Inches	27.643
Lbs. of Water	Cu. Feet	0.01603
Lbs. of Water	Cu. Meters	0.000454

LINEAL MEASURES		
To Convert	To	Multiply By
Inches	mm	25.4
Inches	cm	2.54
Inches	Meters	0.0254
Feet	cm	30.48
Feet	Meters	0.3048
mm	Inches	0.03937
mm	Feet	0.00328
cm	Inches	0.3937
cm	Feet	0.03281
Meters	Feet	3.28

AREA		
To Convert	To	Multiply By
Sq. Inches	Sq. Feet	0.006944
Sq. Inches	Sq. cm	6.4516
Sq. Feet	Sq. Inches	144
Sq. Feet	Sq. cm	929.03
Sq. Feet	Sq. Meters	0.0929
Sq. cm	Sq. Inches	0.155
Sq. cm	Sq. Feet	0.00108
Sq. cm	Sq. Meters	0.0001
Sq. Meter	Sq. Inches	1550
Sq. Meter	Sq. Feet	10.76

CONVERSIONS of PRESSURE AND HEAD					
To Convert	To	Multiply By	To Convert	To	Multiply By
Lbs. per Sq. In.	Lbs. per Sq. Ft.	144	Ins. of Mercury	Lbs. per Sq. In.	0.491154
Lbs. per Sq. In.	Atmospheres	0.06805	Ins. of Mercury	Lbs. per Sq. Ft.	70.7282
Lbs. per Sq. In.	Ins. of Water	27.728	Ins. of Mercury	Atmospheres	0.033421
Lbs. per Sq. In.	Ft. of Water	2.3106	Ins. of Mercury	Ins. of Water	13.6185
Lbs. per Sq. In.	Ins. of Mercury	2.03602	Ins. of Mercury	Ft. of Water	1.1349
Lbs. per Sq. In.	mm of Mercury	51.715	Ins. of Mercury	mm of Mercury	25.40005
Lbs. per Sq. In.	Bar	0.06895	Ins. of Mercury	Bar	0.033864
Lbs. per Sq. In.	kg per Sq. cm	0.070307	Ins. of Mercury	kg per Sq. cm	0.03453
Lbs. per Sq. In.	kg per Sq. M	703.070	Ins. of Mercury	kg per Sq. M	345.316
Lbs. per Sq. Ft.	Lbs. per Sq. In.	0.0069445	mm of Mercury	Lbs. per Sq. In.	0.019337
Lbs. per Sq. Ft.	Atmospheres	0.000473	mm of Mercury	Lbs. per Sq. Ft.	2.7845
Lbs. per Sq. Ft.	Ins. of Water	0.1926	mm of Mercury	Atmospheres	0.001316
Lbs. per Sq. Ft.	Ft. of Water	0.01605	mm of Mercury	Ins. of Water	0.53616
Lbs. per Sq. Ft.	Ins. of Mercury	0.014139	mm of Mercury	Ft. of Water	0.04468
Lbs. per Sq. Ft.	mm of Mercury	0.35913	mm of Mercury	Ins. of Mercury	0.03937
Lbs. per Sq. Ft.	Bar	0.000479	mm of Mercury	Bar	0.00133
Lbs. per Sq. Ft.	kg per Sq. cm	0.000488	mm of Mercury	kg per Sq. cm	0.00136
Lbs. per Sq. Ft.	kg per Sq. M	4.88241	mm of Mercury	kg per Sq. M	13.59509
Atmospheres	Lbs. per Sq. In.	14.696	kg per Sq. cm	Lbs. per Sq. In.	14.2233
Atmospheres	Lbs. per Sq. Ft.	2116.22	kg per Sq. cm	Lbs. per Sq. Ft.	2048.155
Atmospheres	Ins. of Water	407.484	kg per Sq. cm	Atmospheres	0.96784
Atmospheres	Ft. of Water	33.957	kg per Sq. cm	Ins. of Water	394.38
Atmospheres	Ins. of Mercury	29.921	kg per Sq. cm	Ft. of Water	32.865
Atmospheres	mm of Mercury	760	kg per Sq. cm	Ins. of Mercury	28.959
Atmospheres	Bar	1.01325	kg per Sq. cm	mm of Mercury	735.559
Atmospheres	kg per Sq. cm	1.0332	kg per Sq. cm	Bar	0.98067
Atmospheres	kg per Sq. M	10332.27	kg per Sq. cm	kg per Sq. M	10000
Ins. of Water	Lbs. per Sq. In.	0.03609			
Ins. of Water	Lbs. per Sq. Ft.	5.1972			
Ins. of Water	Atmospheres	0.002454			
Ins. of Water	Ft. of Water	0.08333			
Ins. of Water	Ins. of Mercury	0.07343			
Ins. of Water	mm of Mercury	1.8651			
Ins. of Water	Bar	0.00249			
Ins. of Water	kg per Sq. cm	0.00253			
Ins. of Water	kg per Sq. M	25.375			
Ft. of Water	Lbs. per Sq. In.	0.432781			
Ft. of Water	Lbs. per Sq. Ft.	63.3205			
Ft. of Water	Atmospheres	0.029449			
Ft. of Water	Ins. of Water	12			
Ft. of Water	Ins. of Mercury	0.88115			
Ft. of Water	mm of Mercury	22.3813			
Ft. of Water	Bar	0.029839			
Ft. of Water	kg per Sq. cm	0.03043			
Ft. of Water	kg per Sq. M	304.275			

Note: All weights and measures of water are based on temperature of 60°F.

Note: Temperature of Water and Mercury is 68°F and 32°F respectively.

TEMPERATURE	
To convert Fahrenheit to Celsius:	$\frac{^{\circ}\text{F} - 32}{1.8}$
To convert Celsius to Fahrenheit:	$(1.8 \times ^{\circ}\text{C}) + 32$

VELOCITY	
1 Ft. per Sec. =	0.3048 M Per Sec.
1 M per Sec. =	3.2808 Ft. per Sec.



Northeast Fluid Controls, Inc.

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