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METRIC vs. ENGLISH STANDARD MEASURES

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BACK

HOME

PRESSURE

Ft of Water x .433 = PSI
 PSI x 2.31 = Ft of Water
 Inches Hg x .491 = PSI
 Inches Hg x 1.133 = Ft of Water
 ATM x 14.7 = PSI
 ATM x 33.9 = Ft of Water
 Kg/Sq cm x 14.22 = PSI
 Meters of Water x 1.42 = PSI
 ATM x 760 = mm Hg
 mm Hg x .039 = Inches Hg
 Bar x 14.5 = PSI
 Newton/Meter² x 1 = Pascal
 PSI x 6.9 = kPa (Kilopascal)
 kPa x .145 = PSI

VOLUME

Lbs Water x .119 =Gal
 Gal (Brit) x 1.2 = Gal (US)
 Gal x 128 = Fluid Ounces
 Cubic Ft x 7.48 = Gal
 Cubic In x .00433 = Gal
 Gal x 3.785 = Liters
 Liter x .264 = Gal
 Cubic Meters x 264.2 = Gallons
 Cubic Meter x 1000 = Liter
 Liters x 1000 = Cubic Centimeters
 Cubic Centimeters x .0338 = Fluid Ounces
 Fluid Ounces x 29.57 = Cubic Centimeters

LENGTH

Inches x 25.4 = millimeters
 Inches x 2.54 = centimeters
 Meters x 3.281 = feet
 Yards x 1.093 = meters
 Miles x .621 = kilometers
 Microns x .0000394 = inches
 Mils x .001 = inches

TEMPERATURES

(1.8 x 8C) + 32 = °F
 .555 (°F - 32°) = °C
 Degrees Kelvin - 273.2 = Degrees Cent.

DISTANCE

1 Foot = .3048 Meters
 1 Meter = 3.281 Feet

WEIGHT

1 Pound = .454 Kilograms
 1 Kilogram = 2.205 Pounds

HORSEPOWER

1 Horsepower = .7457 Kilowatt
 1 Kilowatt = 1.341 Horsepower

INCHES MEASUREMENT CONVERSION CHART

Fractions	Decimals	Millimeters	Fractions	Decimals	Millimeters
1/64	.015625	0.396	33/64	.515625	13.096
1/32	.03125	0.793	17/32	.53125	13.493
3/64	.046875	1.190	35/64	.546875	13.890
1/16	.0625	1.587	9/16	.5625	14.287
5/64	.078125	1.984	37/64	.578125	14.684
3/32	.09375	2.381	19/32	.59375	15.081
7/64	.109375	2.778	39/64	.609375	15.478
1/8	.125	3.175	5/8	.625	15.875
9/64	.140625	3.571	41/64	.640625	16.271
5/32	.15625	3.968	21/32	.65625	16.668
11/64	.171875	4.365	43/64	.671875	17.065
3/16	.1875	4.762	11/16	.6875	17.462
13/64	.203125	5.159	45/64	.703125	17.859
7/32	.21875	5.556	23/32	.71875	18.256
15/64	.234375	5.953	47/64	.734375	18.653
1/4	.25	6.350	3/4	.75	19.050
17/64	.265625	6.746	49/64	.765625	19.446
9/32	.28125	7.143	25/32	.78125	19.843
19/64	.296875	7.540	51/64	.796875	20.240
5/16	.3125	7.937	13/16	.8125	20.637
21/64	.328125	8.334	53/64	.828125	21.034
11/32	.34375	8.731	27/32	.84375	21.431
23/64	.359375	9.128	55/64	.859375	21.828
3/8	.375	9.525	7/8	.875	22.225
25/64	.390625	9.921	57/64	.890625	22.621
13/32	.40625	10.318	29/32	.90625	23.018
27/64	.421875	10.715	59/64	.921875	23.415
7/16	.4375	11.112	15/16	.9375	23.812
29/64	.453125	11.509	61/64	.953125	24.209
15/32	.46875	11.906	31/32	.96875	24.606
31/64	.484375	12.303	63/64	.984375	25.003
1/2	.5	12.700	1	1.000	25.400

THEORETICAL DISCHARGE OF NOZZLES IN GPM

Head psi	Velocity of disch. ft/sec	Diameters of Nozzle in Inches												
		1/16	1/8	3/16	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8
10	38.6	0.37	1.48	3.32	5.91	13.3	23.6	36.9	53.1	72.4	94.5	120	148	179
15	47.25	0.45	1.81	4.06	7.24	16.3	28.9	45.2	65.0	88.5	116	147	181	219
20	54.55	0.52	2.09	4.69	8.35	18.8	33.4	52.2	75.1	102	134	169	209	253
25	61.0	0.58	2.34	5.25	9.34	21.0	37.3	58.3	84.0	114	149	189	234	283
30	66.85	0.64	2.56	5.75	10.2	23.0	40.9	63.9	92.0	125	164	207	256	309
35	72.2	0.69	2.77	6.21	11.1	24.8	44.2	69.0	99.5	135	177	224	277	334
40	77.2	0.74	2.96	6.64	11.8	26.6	47.3	73.8	106	145	188	239	296	357
45	81.8	0.78	3.13	7.03	12.5	28.2	50.1	78.2	113	153	200	253	313	379
50	86.25	0.83	3.30	7.41	13.2	29.7	52.8	82.5	119	162	211	267	330	399
55	90.5	0.87	3.46	7.77	13.8	31.1	55.3	86.4	125	169	221	280	346	418
60	94.5	0.90	3.62	8.12	14.5	32.5	57.8	90.4	130	177	231	293	362	438
65	98.3	0.94	3.77	8.45	15.1	33.8	60.2	94.0	136	184	241	305	376	455
70	102.1	0.98	3.91	8.78	15.7	35.2	62.5	97.7	141	191	250	317	391	473
75	105.7	1.01	4.05	9.08	16.2	36.4	64.7	101	146	198	259	327	404	489
80	109.1	1.05	4.18	9.39	16.7	37.6	66.8	104	150	205	267	338	418	505
85	112.5	1.08	4.31	9.67	17.3	38.8	68.9	108	155	211	276	349	431	521
90	115.8	1.11	4.43	9.95	17.7	39.9	70.8	111	160	217	284	359	443	536
95	119.0	1.14	4.56	10.2	18.2	41.0	72.8	114	164	223	292	369	456	551
100	122.0	1.17	4.67	10.5	18.2	41.1	74.7	117	168	229	299	378	467	565
105	125.0	1.20	4.79	10.8	19.2	43.1	76.5	120	172	234	306	388	479	579
110	128.0	1.23	4.90	11.0	19.6	44.1	78.4	122	176	240	314	397	490	593
115	130.9	1.25	5.01	11.2	20.0	45.1	80.1	125	180	245	320	406	501	606
120	133.7	1.28	5.12	11.5	20.5	46.0	81.8	128	184	251	327	414	512	619
130	139.1	1.33	5.33	12.0	21.3	48.0	85.2	133	192	261	341	432	533	645
140	144.3	1.38	5.53	12.4	22.1	49.8	88.4	138	199	271	354	448	553	668
150	149.5	1.43	5.72	12.9	22.9	51.6	91.5	143	206	280	366	463	572	692
175	161.4	1.55	6.18	13.9	24.7	55.6	98.8	154	222	302	395	500	618	747
200	172.6	1.65	6.61	14.8	26.4	59.5	106	165	238	323	423	535	660	799
250	193.0	1.85	7.39	16.6	29.6	66.5	118	185	266	362	473	598	739	894
300	211.2	2.02	8.08	18.2	32.4	72.8	129	202	291	396	517	655	808	977