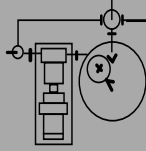


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Process Solutions



Pumps, Valves, Fittings & Specialties



Mixing Solutions

CONVERSION TABLE

<u>FLOW</u>		<u>PRESSURE</u>		<u>METRIC PREFIXES</u>	
Lbs. Of water/Hr x .002	=Gal Min	Ft of Water x .433	= PSI	Mega	= 1,000,000
Gal/Min x 500	=Lbs of Water/Hr	PSI x 2.31	= Ft of Water	Kilo	= 1000
<u>Lbs of Fluid/Hr</u> x .022	=Gal Min	Inches Hg x .491	= PSI	Hecto	= 100
Specific Gravity		Inches Hg x 1.133	= Ft of Water	Deca	= 10
Liters/Min x .264	=Gal/Min (US)	ATM x 14.7	= PSI	Deci	= 0.1
GPM x 3.785	=Liters/Min	ATM x 33.9	= Ft of Water	Ceti	= 0.01
Cu Meters/Hr x 4.4	=Gal/Min (US)	Kg/Sq cm x 14.22	= PSI	Milli	= 0.001
Gal/Min x .227	=Cu Meters/Hr	Meters of Water x 1.42	= PSI	Micro	= .000,001
Kg of Water/Min x .264	=Gal/Min (US)	ATM x 760	= mm Hg		
Gal/Min x 3.8	=Kg of Water/Min	mm Hg x .039	= Inches Hg		
		Bar x 14.5	= PSI	<u>LENGTH</u>	
		New ton/Meter 2 x 1	= Pascal	Mils x .001	= Inches
		Psi x 6.9	= kPa (Kilopascal)	Meters x 3.281	= Feet
		kPa x .145	= PSI	Centimeters x .394	= Inches
				Millimeters x .0394	= Inches
				Microns x .0000394	= Inches
<u>VOLUME</u>		<u>POWER</u>		<u>MASS</u>	
Lbs Water x .119	=Gal	HP = $\frac{T (Ft Lb) \times RPM}{5250}$	= $\frac{T (in Lb) \times RPM}{63025}$	Gal of Water x 8.336	= Lbs
Gal (Imperial)	=Gal (US) x 1.2	HP = $\frac{Disp (Gals) \times RPM \times PSI}{1714 \times EFF}$		Cubic Ft of Water x .624	= Lbs
Gal x 128	=Fluid Ounces			Ounces x .0625	= Lbs
Cubic Ft x 7.48	=Gal			Kilograms x 2.2	= Lbs
Cubic In. x .00433	=Gal			Lbs x .454	= Kilograms
Gal x 3.784	=Liters			Metric Ton x 2205	= Lbs
Liter x .264	=Gal	Horsepower x .746	= Kilowatts		
Cubic Meters x 264.2 Cubic	=Gallons	Horsepower x 42.44	= BTU/Min		
Meter x 1000 Cubic	=Cubic Centimeters	Metric Horsepower x .9863	= Horsepower		
Centimeters x .0338 Fluid	=Fluid Ounces				
Ounces x 29.57	=Cubic Centimeters				

VISCOSITY CONVERSION TABLE

SAYBOLT UNIVERSAL SSU	STOKES	CENTI STOKES	POISES*	CENTI POISES*	ENGLER SECONDS	REDWOOD NO. 1 SECONDS	TYPICAL LIQUIDS AT 70 F
31	.010	1.00	.008	.8	54	29	WATER
35	.025	2.56	.020	2.05	59	32.1	KEROSENE
50	.074	7.40	.059	5.92	80	44.3	NO. 2 FUEL OIL
80	.157	15.7	.126	12.6	125	69.2	NO. 4 FUEL OIL
100	.202	20.2	.162	16.2	150	85.6	TRANSFORMER OIL
200	.432	43.2	.346	34.6	295	170	HYDRAULIC OIL
300	.654	65.4	.522	52.2	470	254	SAE 10W OIL
500	1.10	110	.88	88.0	760	423	SAE 10 OIL
1,000	2.16	220	1.73	173	1,500	896	SAE 20 OIL
2,000	4.40	440	3.52	352	3,000	1,690	SAE 30 OIL
5,000	10.8	1,080	8.80	880	7,500	4,230	SAE 50 OIL
10,000	21.6	2,160	17.3	1,760	15,000	8,460	SAE60-70 OIL
50,000	108	10,800	88	8,800	75,000	43,660	MOLASSES B
100,000	216	21,600	173	17,300	150,000	88,160	MOLASSES C

* Poises and centipoises are given for oil of .8 specific gravity. Relationship: centistokes x specific gravity = centipoise

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