

# LP Gas Vapor Line Sizing for Polyethylene Tubing

**TABLE 1 – FIRST STAGE PLASTIC TUBING SIZING**

10 psig inlet with 1 psig pressure drop.

Maximum capacity of pipe or tubing, in thousands of BTU/hr of LP gas.

SIZE OF POLY TUBING Tubing Inches	LENGTH OF PIPE OR TUBING, FEET*																				
	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	
1/2 CTS	7.00	1387	954	766	655	581	526	484	450	423	399	354	321	295	274	257	243	231	220	203	189
1/2 IPS	9.33	3901	2681	2153	1843	1633	1480	1361	1267	1188	1122	995	901	829	772	724	684	649	620	570	530
3/4 IPS	11.00	7811	5369	4311	3690	3270	2963	2726	2536	2379	2248	1992	1805	1660	1545	1449	1369	1300	1241	1141	1062
1 CTS	11.50	9510	6536	5249	4492	3981	3607	3319	3088	2897	2736	2425	2197	2022	1881	1765	1667	1583	1510	1389	1293
1 CTS	12.50	10002	6874	5520	4725	4187	3794	3490	3247	3046	2878	2551	2311	2126	1978	1856	1753	1665	1588	1461	1359
1 IPS	11.00	14094	9687	7779	6658	5901	5346	4919	4578	4293	4055	3594	3257	2996	2787	2615	2470	2346	2238	2059	1916
1 1/4 IPS	10.00	24416	16781	13476	11534	10222	9262	8521	7927	7438	7026	6226	5642	5190	4829	4531	4280	4064	3878	3567	3318
2 IPS	11.00	66251	45534	36566	31295	27737	25131	23120	21509	20181	19063	16895	15308	14084	13102	12293	11612	11028	10521	9680	9005

**TABLE 2 – FIRST STAGE PIPE SIZING**

10 psig inlet with 1 psig pressure drop.

Maximum capacity of pipe or tubing, in thousands of BTU/hr of LP gas.

SIZE OF PIPE OR COPPER Tubing Inches	LENGTH OF PIPE OR TUBING, FEET*																				
	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	
Copper Tubing (OD)	3/8"	515	353	284	242	216	195	180	167	157	148	131	119	109	102	96	90	86	82	75	70
	1/2"	1063	730	587	502	445	403	371	345	324	306	271	246	226	210	197	186	177	169	155	144
	5/8"	2162	1486	1193	1021	905	820	754	702	659	622	551	500	460	428	401	379	360	343	316	294
	3/4"	3778	2597	2085	1785	1582	1433	1319	1227	1151	1087	964	873	803	747	701	662	629	600	552	514
Pipe Size	1/2"	3339	2295	1843	1577	1398	1267	1165	1084	1017	961	851	772	710	660	619	585	556	530	488	454
	3/4"	6982	4799	3854	3298	2923	2649	2437	2267	2127	2009	1780	1613	1484	1381	1296	1224	1162	1109	1020	949
	1"	13153	9040	7259	6213	5507	4989	4590	4270	4007	3785	3354	3039	2796	2601	2441	2305	2190	2089	1922	1788
	1 1/4"	27004	18560	14904	12756	11306	10244	9424	8767	8226	7770	6887	6240	5741	5340	5011	4733	4495	4289	3945	3670
	1 1/2"	40461	27809	22331	19113	16939	15348	14120	13136	12325	11642	10318	9349	8601	8002	7508	7092	6735	6426	5911	5499
	2"	77924	53556	43008	36809	32623	29559	27194	25299	23737	22422	19871	18005	16564	15410	14459	13658	12971	12375	11385	10591

**TABLE 3 – FIRST STAGE PIPE SIZING**

5 psig inlet with 1 psig pressure drop.

Maximum capacity of pipe or tubing, in thousands of BTU/hr of LP gas.

SIZE OF PIPE OR COPPER Tubing Inches	LENGTH OF PIPE OR TUBING, FEET*																				
	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	
Copper Tubing (OD)	3/8"	454	312	251	215	190	172	159	148	138	131	116	105	97	90	84	80	76	72	66	62
	1/2"	938	644	518	443	393	356	327	304	286	270	239	217	199	185	174	164	156	149	137	127
	5/8"	1907	1311	1053	901	799	724	666	619	581	549	486	441	405	377	354	334	318	303	279	259
	3/4"	3334	2291	1840	1575	1396	1265	1163	1082	1015	959	850	770	709	659	619	584	555	529	487	453
Pipe Size	1/2"	2946	2025	1626	1392	1233	1118	1028	957	897	848	751	681	626	583	547	516	490	468	430	400
	3/4"	6161	4234	3400	2910	2579	2337	2150	2000	1877	1773	1571	1424	1310	1218	1143	1080	1026	978	900	837
	1"	11605	7976	6405	5482	4859	4402	4050	3768	3535	3339	2956	2682	2467	2295	2153	2034	1932	1843	1696	1577
	1 1/4"	23826	16376	13150	11255	9975	9038	8315	7735	7258	6856	6076	5505	5065	4712	4421	4176	3966	3784	3481	3238
	1 1/2"	35699	24536	19703	16863	14946	13542	12458	11590	10875	10272	9104	8249	7589	7060	6624	6257	5943	5669	5216	4852
	2"	68753	47253	37846	32477	28784	26080	23993	22321	20943	19783	17533	15886	14615	13597	12757	12051	11445	10919	10045	9345

**TABLE 4 – SECOND, SINGLE OR INTEGRAL TWIN STAGE PIPE SIZING**

11" water column inlet with a 1/2" water column drop.

Maximum capacity of pipe or tubing, in thousands of BTU/hr of LP gas.

SIZE OF PIPE OR COPPER Tubing Inches	LENGTH OF PIPE OR TUBING, FEET*																				
	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	
Copper Tubing (OD)	3/8"	45	31	25	21	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	1/2"	93	64	61	44	39	35	32	30	28	27	—	—	—	—	—	—	—	—	—	
	5/8"	188	129	104	89	79	71	66	61	57	54	—	—	—	—	—	—	—	—	—	
	3/4"	329	226	182	156	138	125	115	107	100	95	—	—	—	—	—	—	—	—	—	
	7/8"	467	321	258	221	196	177	163	152	142	134	—	—	—	—	—	—	—	—	—	
Pipe Size	1/2"	291	200	161	137	122	110	102	94	87	84	74	67	72	58	54	51	48	46	43	40
	3/4"	608	418	336	287	255	231	212	198	185	175	155	141	129	120	113	107	101	97	89	83
	1"	1146	788	632	541	480	435	400	372	349	330	292	265	244	227	213	201	191	182	167	156
	1 1/4"	2353	1617	1299	1111	985	892	821	764	717	677	600	544	500	465	437	412	392	374	344	320
	1 1/2"	3525	2423	1946	1665	1476	1337	1230	1144	1074	1014	899	815	749	697	654	618	587	560	515	479
	2"	6789	4666	3747	3207	2842	2575	2369	2204	2068	1954	1731	1569	1443	1343	1260	1190	1130	1078	993	923

\*Total length of piping from outlet of first-stage to inlet of second-stage regulator (or to inlet of second-stage regulator furthest away)

Notes: 1) To allow 2 psig pressure drop, multiply total gas demand by .707 and use capacities from table.

2) For different first-stage pressures multiply total gas demand by the following factors, and use capacities from table.

Data calculated per NFPA #54 and #58.

First Stage Pressure, psig	Multiply by:
20	.844
15	.912

## Line Sizing Chart for Liquid Propane in gPm

Based on 1 PSIG Pressure Drop – Propane at 60° F – Based on Schedule 40/80 Steel/Iron Pipe

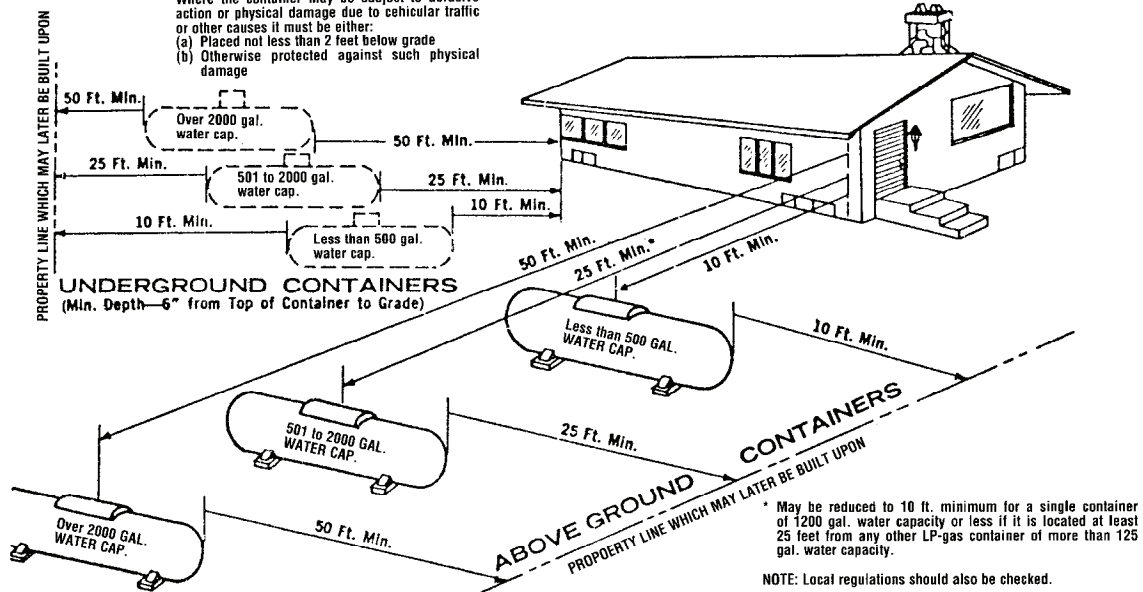
Piping Length (feet)	1/2-inch		3/4-inch		1-inch		1-1/4-inch	
	40	80	40	80	40	80	40	80
10	7.1	5.0	15.0	11.3	28.3	22.2	58.0	47.6
15	5.8	4.1	12.2	9.2	23.0	18.1	47.5	38.8
20	5.0	3.5	10.5	8.0	19.9	15.6	41.0	33.5
30	4.1	2.9	8.5	6.5	16.2	12.7	33.4	27.3
40	3.5	2.5	7.4	5.6	14.0	11.0	28.8	23.5
50	3.1	2.2	6.6	5.0	12.5	9.8	25.7	21.0
60	2.8	2.0	6.0	4.5	11.3	8.9	23.4	19.1
70	2.6	1.8	5.5	4.2	10.5	8.2	21.6	17.7
80	2.4	1.7	5.2	3.9	9.8	7.7	20.2	16.5
90	2.3	1.6	4.8	3.7	9.2	7.2	19.0	15.5
100	2.2	1.5	4.6	3.5	8.7	6.8	18.0	14.7
150	1.8	1.2	3.7	2.8	7.1	5.5	14.6	11.9
200	1.5	1.1	3.2	2.4	6.1	4.8	12.6	10.3
300	1.2	0.9	2.6	1.9	4.9	3.8	10.2	8.3
400	1.0	0.7	2.2	1.7	4.2	3.8	8.8	7.1

Piping Length (feet)	1-1/2-inch		2-inch		2-1/2-inch		3-inch		4-inch	
	40	80	40	80	40	80	40	80	40	80
10	87.0	73.0	169.0	143.0	269.0	229.0	475	410	967	846
15	71.0	59.0	137.0	116.0	219.0	187.0	387	334	789	690
20	62.0	51.0	119.0	100.0	189.0	161.0	335	289	682	597
30	50.1	41.6	97.0	82.0	154.0	131.0	283	235	556	486
40	43.3	35.9	84.0	71.0	133.0	114.0	236	203	481	421
50	36.3	32.1	75.0	63.0	119.0	101.0	211	182	429	376
60	35.2	29.2	68.0	57.0	109.0	92.0	192	166	391	343
70	32.5	27.0	63.0	53.0	100.0	85.0	177	153	362	317
80	30.4	25.2	59.0	49.6	94.0	80.0	166	143	338	296
90	28.6	23.7	55.0	46.7	88.0	75.0	156	135	319	279
100	27.1	22.5	52.0	44.2	84.0	71.0	148	128	302	264
150	22.0	18.2	42.5	35.9	68.0	58.0	120	104	246	215
200	18.9	15.7	36.7	31.0	59.0	49.9	104	89	212	185
300	15.3	12.7	29.7	25.1	47.5	40.4	84	73	172	151
400	13.2	10.9	25.6	21.6	40.9	34.8	73	66	149	130

### LOCATION OF STORAGE TANKS

(From NFPA Standard No. 58, 1969)

Where the container may be subject to abrasive action or physical damage due to vehicular traffic or other causes it must be either:  
 (a) Placed not less than 2 feet below grade  
 (b) Otherwise protected against such physical damage



# Installation Planning

## ASME STORAGE CONTAINERS

### DETERMINING PROPANE VAPORIZATION CAPACITY

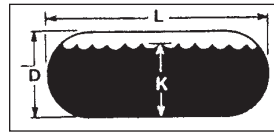
"Rule of Thumb" Guide for Asme LP Gas Storage Containers

Where:

"D" = Outside diameter in inches

"L" = Overall length in inches

"K" = Constant for percent volume of liquid in container



PERCENTAGE OF CONTAINER FILLED	K EQUALS	PROPANE VAPORIZATION CAPACITY AT 0° F. (IN BTU/HR) †
60	100	D x L x 100
50	90	D x L x 90
40	80	D x L x 80
30	70	D x L x 70
20	60	D x L x 60
10	45	D x L x 45

† These formulae allow for the temperature of the liquid to refrigerate to -20° F. (below zero), producing a temperature differential of 20° F. for the transfer of heat from the air to the container's "wetted" surface and then into the liquid. The vapor space area of the vessel is not considered, its effect is negligible.

### VAPOR CAPACITIES FOR OTHER AIR TEMPERATURES

(Multiply the results obtained with the above formulae, by one of the following factors for the prevailing air temperature.)

PREVAILING AIR TEMPERATURE	MULTIPLIER
-15° F	0.25
-10° F	0.50
-5° F	0.75
0° F	1.00
+5° F	1.25
+10° F	1.50
+15° F	1.75
+20° F	2.00

### USEFUL INFORMATION ABOUT LP GAS\*

	PROPANE	BUTANE
Formula	C <sub>3</sub> H <sub>8</sub>	C <sub>4</sub> H <sub>10</sub>
Boiling Point, ° F	-44	32
Specific Gravity of Gas (Air = 1.00)	1.50	2.01
Specific Gravity of Liquid (Water = 1.00)	0.504	0.582
Pounds per Gallon of Liquid at 60° F	4.20	4.81
BTU per Gallon of Gas at 60° F	90502	102032
BTU per Pounds of Gas	21548	21221
BTU per Cubic Foot of Gas at 60° F	2488	3280
Cubic Feet of Vapor at 60° F / Gallons of Liquid at 60° F	36.38	31.26
Cubic Feet of Vapor at 60° F / Pounds of Liquid at 60° F	8.66	6.51
Latent Heat of Vaporization at Boiling Point BTU / Gallon	773.0	808.0
Combustion Data:		
Cubic Feet Air Required to Burn 1 Cubic Foot Gas	23.86	31.02
Flash Point ° F	-155	N/A
Ignition Temperature in Air, ° F	920-1120	900-1000
Maximum Flame Temperature in Air, ° F	3625	3615
Limits of Inflammability		
Percentage of Gas in Air Mixture:		
At Lower Limit - %	2.15	1.55
At Upper Limit - %	9.6	8.6
Octane Number (ISO - Octane = 100)	100-110	92

\*Commercial quality. Figures shown in this chart represent average values.

## VAPOR PRESSURES OF LP GASES

TEMPERATURE (°F)	APPROXIMATE PRESSURE (PSIG)	
	PROPANE	BUTANE
-40	1.3	
-30	5.5	
-20	10.7	
-10	16.7	
0	23.5	
10	31.3	
20	40.8	
30	51.6	
40	63.3	3.0
50	77.1	6.9
60	92.5	11.5
70	109.3	17.0
80	128.1	22.0
90	149.3	29.0
100	172.3	37.0
110	197.3	46.0

## CONVERSION UNITS

MULTIPLY	BY	TO OBTAIN
<b>PRESSURE</b>		
Atmospheres	14.70	Pounds per Square Inch
Atmospheres	407.14	Inches Water
Inches of Mercury	1.133	Feet of Water
Inches of Mercury	0.4912	Pounds per Square Inch
Inches of Water	0.0735	Inches of Mercury
Inches of Water	5.204	Pounds per Square Foot
Inches of Water	0.0361	Pounds per Square Inch
Inches of Water	0.5781	Pounds per Square Inch
Pounds per Square Inch	0.06804	Atmospheres
Pounds per Square Inch	2.036	Inches of Mercury
Pounds per Square Inch	2.307	Feet of Water
Pounds per Square Inch	27.67	Inches of Water
<b>METRIC</b>		
Atmospheres	1.0332	Kilograms per Square Centimeter
Grams per Square Centimeter	0.0142	Pounds per Square Inch
Kilograms per Square Centimeter	14.22	Pounds per Square Inch
Kilograms per Square Meter	0.2048	Pounds per Square Inch
Pounds per Square Inch	0.7031	Kilograms per Square Centimeter
<b>LENGTH</b>		
Centimeters	0.3937	Inches
Feet	304.8	Millimeters
Feet	30.48	Centimeters
Feet	0.3048	Meters
Inches	25.40	Millimeters
Inches	2.540	Centimeters
Kilometer	0.6214	Miles
Meters	39.37	Inches
Meters	3.281	Feet
Meters	1.094	Yards
Miles (statute)	1609.0	Meters
Miles (nautical)	1853.0	Meters
Yards	91.44	Centimeters
Yards	0.9144	Meters
<b>VOLUME</b>		
Cubic Feet	1728	Cubic Inches
Cubic Feet	7.4805	Gallons (US)
Gallons	0.1337	Cubic Feet
Gallons	231.0	Cubic Inches
Gallons (US)	0.83267	Gallons (Imperial)
Gallons (Imperial)	1.20095	Gallons (US)
<b>METRIC</b>		
Cubic Centimeter	0.06103	Cubic Inch
Cubic Feet	28.316	Liters
Gallons (US)	3.785	Liters
Liters	0.03531	Cubic Feet
Liters	0.2642	Gallons (US)
Liters	1.057	Quarts (US)
Liters	2.113	Pints (US)
Pints (US)	0.4732	Liters
<b>MISCELLANEOUS</b>		
BTU	0.252	Calories
Calories	3.968	BTU
Decitherm	10,000	BTU
Kilogram	2.205	Pounds
Kilowatt Hour	3412	BTU
Ounces	28.35	Grams
Pounds	453.5924	Grams
Pounds	0.4536	Kilograms
Therm	100,000	BTU

# Miscellaneous Information

## COMMONLY USED FORMULAS

Pressure in PSI of a Column of Water = Height of Column in Feet x .434
Wheel RPM = 1056 x MPH ÷ Circumference
Gallons per Acre (GPA) = $\frac{(GPM \times 5940)}{(MPH \times Swath \text{ in Inches})}$
Gallons per Minute (GPM) = $\frac{GPA \times MPH \times Swath \text{ in Inches}}{5940}$
Capacity of a Round Tank in Gallons = Diameters in Inches Squared x Length in Inches x .0034
Capacity of a Rectangular Tank in Gallons = Length in Inches x Width in Inches x Height in Inches ÷ 231

Gallons per Foot of Depth = Diameter in Feet Squared x 5.875
Gallons per Foot of Depth = Diameter in Inches Squared x .0408
Diameter of Circle = Circumference x .31831
Circumference of Circle = Diameter x 3.1416
Area of Circle = Square of Diameter x .7854

## PIPE AND PIPE FITTINGS

### DIMENSION IN INCHES • STANDARD BLACK OR GALVANIZED

A common error made when sizing threaded fittings occurs whenever a ruler or tape measure is used. Pipe sizes must be measured by a pipe size scale – see illustration below.

NOMINAL PIPE SIZE, INCHES	ACTUAL INSIDE DIAMETER	ACTUAL OUTSIDE DIAMETER
1/4"	0.364	0.540
3/8"	0.493	0.675
1/2"	0.622	0.840
3/4"	0.824	1.050
1"	1.049	1.315
1 1/4"	1.380	1.660
1 1/2"	1.610	1.900
2"	2.067	2.375
2 1/2"	2.469	2.875
3"	3.068	3.500

### VAPORIZATION RATES FOR 100 POUND (45KG) DOT CYLINDERS IN BTUH FOR VARIOUS TEMPERATURES & LIQUID LEVELS

POUNDS OF PROPANE IN CYLINDER	-20° F (-29° C)	0° F (-18° C)	20° F (-6° C)	40° F (4° C)
100	65,000	71,000	79,000	94,000
90	60,000	65,000	72,000	85,000
80	54,000	59,000	66,000	77,000
70	48,000	52,000	59,000	69,000
60	43,000	46,000	52,000	61,000
50	37,000	40,000	45,000	53,000
40	31,000	34,000	38,000	45,000
30	26,000	28,000	31,000	37,000
20	20,000	22,000	25,000	29,000
10	15,000	16,000	18,000	21,000

### VAPORIZATION RATES FOR ASME STORAGE TANKS

A number of assumptions were made in calculating the BTU figures listed in the table below:

1. The tank is one-half full.
2. Relative humidity is 70%.
3. The tank is under intermittent loading.

Although none of these conditions may apply, this table can still serve as a good rule-of-thumb in estimating what a particular tank size will provide under various temperatures. Continuous loading is not a very common occurrence on domestic installations, but under continuous loading the withdrawal rates should be multiplied by 0.25.

### MAXIMUM INTERMITTENT WITHDRAWAL RATE BTU/HR WITHOUT TANK FROSTING IF LOWEST OUTDOOR TEMPERATURE (AVERAGE FOR 24 HOURS) REACHES...

TEMPERATURE		TANK SIZE , GALLONS			
		150 (568)	250 (946)	500 (1893)	1000 (3785)
40° F	4° C	214,900	288,100	478,800	852,800
30° F	-1° C	187,000	251,800	418,600	745,600
20° F	-7° C	161,800	216,800	360,400	641,900
10° F	-12° C	148,000	198,400	329,700	587,200
0° F	-18° C	134,700	180,600	300,100	534,500
-10° F	-23° C	132,400	177,400	294,800	525,400
-20° F	-29° C	108,800	145,800	242,300	431,600
-30° F	-34° C	107,100	143,500	238,600	425,000

# Measurement Conversion Factors

<b>GENERAL</b>			
One HP		2,545 Btu	
One Acre		43,560 Square Feet or 0.405 Hectares	
One Hectare		2.471 Acres	
One Gallon per Acre		9.35 Liters per Hectare	
One Mile		5,280 Feet or 1610 Meters or 1.61 Kilometers	
One Gallon		128 Fluid Ounces or 8 Pints or 4 Quarts	
One Gallon		3.79 Liters or 0.83 Imperial Gallons	
One Pound per Square Inch (PSI)		0.070 kg/cm <sup>2</sup>	
One Pound per Square Inch (PSI)		6.895 kPa (Kilopascal)	
One Pound		454 Kilogram	
One Inch		2.54 Centimeters	
<b>AREA MEASURE</b>			
144 Square Inches		1 Square Foot	
9 Square Feet		1 Square Yard	
30 1/4 Square Yards		1 Square Rod	
160 Square Rods		1 Acre	
1 Acre		43,560 Square Feet	
640 Acres		1 Square Mile	
1 Square Mile		1 Section (of Land)	
1 Rod		16.5 Feet	
<b>LINEAR MEASURE DRY MEASURE</b>			
12 Inches	1 Foot	1/2 Quart	1 Pint
3 Feet	1 Yard	2 Pints	1 Quart
5 1/2 Feet	1 Rod	8 Quarts	1 Peck
40 Rods	1 Furlong	4 Pecks	1 Bushels
8 Furlongs	1 Mile	105 Quarts	1 Barrel
1 Mile	5,280 Feet = 320 Rods		
<b>LIQUID MEASURE CUBIC MEASURE</b>			
1/16 Pint	1 Ounce	1,728 Cubic Inches	1 Cubic Foot
4 Ounces	1 Gill	27 Cubic Feet	1 Cubic Yard
4 Gills	1 Pint = 16 Ounces	128 Cubic Feet (4 x 4 x 8)	1 Cord (Wood)
2 Pints	1 Quart = 32 Ounces	231 Cubic Inches	1 Gallon
4 Quarts	1 Gallon	2,150.4 Cubic Inches	1 Bushel
31 1/2 Gallons	1 Barrel		
31 1/2 Gallons	126 Quarts		
<b>HEAD</b>			
1 Pound per Square Inch (PSI)		2.31 Feet of Water 2.04 Inch Mercury	
1 Foot of Water		0.433 Pounds per Square Inch 0.885 Inch Mercury	
1 Inch of Mercury		1.132 Feet of Water	
1 Kilogram per Square centimeter		14.22 Pounds per Square Inch	
1 Atmosphere (at Sea Level)		14.7 Pounds per Square Inch 33.9 Feet of Water 10.35 Meters of Water	
1 Meter of Water		3.28 Feet of Water	
<b>WEIGHT OF SOLUTION</b>		<b>SPECIFIC GRAVITY</b>	<b>CONVERSION FACTORS</b>
7.0 Pounds per Gallon		.84	1.09
8.0 Pounds per Gallon		.96	1.02
8.34 Pounds per Gallon – Water		1.00	1.00
9.0 Pounds per Gallon		1.08	.96
10.0 Pounds per Gallon		1.20	.91
11.0 Pounds per Gallon		1.32	.87
12.0 Pounds per Gallon		1.44	.83
14.0 Pounds per Gallon		1.68	.77
16.0 Pounds per Gallon		1.92	.72
18.0 Pounds per Gallon		2.16	.68
20.0 Pounds per Gallon		2.40	.65
Imperial Gallon		1.20 USA Gallons	

<b>VOLUME</b>	
1 US Gallon	231 Cubic Inches 0.137 Cubic Feet 3.785 Liters .00379 Cubic Meters 0.833 Imperial Gallon
1 Imperial Gallon	1.2 US Gallons 277.274 Cubic Inches
1 Cubic Foot	1728 Cubic Inches 7.481 US Gallons 0.0283 Cubic Meter
1 Liter	0.2642 US Gallon
1 Cubic Meter	35.314 Cubic Feet 264.2 US Gallons
1 Acre Foot	43,560 Cubic Feet 325,829 US Gallons
1 Acre Inch	3,630 Cubic Feet 27,100 US Gallons
1 Barrel (Oil)	42 US Gallons
<b>METRIC CONVERSION</b>	
<b>LINEAR MEASURE</b>	
1 Centimeter	0.3937 Inches
1 Inch	2.54 Centimeters
1 Decimeter	3.937 Inches or 0.328 Feet
1 Foot	3.048 Decimeters
1 Meter	39.37 Inches or 1.0936 Yards
1 Yard	0.9144 Meter
1 Dekameter	1.9884 Rods
1 Rod	0.5029 Dekameter
1 Kilometer	0.62137 Mile
1 Mile	1.6093 Kilometers
<b>SQUARE MEASURE</b>	
1 Square Centimeter	0.1550 Square Inch
1 Square Inch	6.452 Square Centimeters
1 Square Decimeter	0.1076 Square Foot
1 Square Foot	9.2903 Square Decimeter
1 Square Meter	1.196 Yards
1 Square Yard	0.8361 Square Meter
1 Acre	160 Square Rods
1 Square Rod	0.00625 Acre
1 Hectare	2.47 Acres
1 Acre	0.4047 Hectare
1 Square Kilometer	0.386 Square Mile
1 Square Mile	2.59 Square Kilometers
<b>MEASURE OF VOLUME</b>	
1 Cubic Centimeter	0.061 Cubic Inch
1 Cubic Inch	16.39 Cubic Centimeters
1 Cubic Decimeter	0.0353 Cubic Foot
1 Cubic Foot	28.317 Cubic Decimeters
1 Cubic Yard	0.7646 Cubic Meter
1 Stere	0.2759 Cord
1 Cord	3.624 Steres
1 Liter	0.908 Quart Dry or 1.0567 Quarts Liquid
1 Quart Dry	1.101 Liters
1 Quart Liquid	0.9463 Liter
1 Dekaliter	2.6417 Gallons or 1.135 Pecks
1 Gallon	0.3785 Dekaliter
1 Peck	0.881 Dekaliter
1 Hektoliter	2.8375 Bushels
1 Bushel	0.3525 Hektoliter
<b>WEIGHTS</b>	
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

# FEI, Inc. Company Policies

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## Prices

Prices are subject to change without notice. Retail prices published in the catalog were current at the time of printing. For exact current prices contact FEI Customer Service. Orders will be processed according to prices in effect at date of shipment unless otherwise notified.

## Minimum Billing

\$10.00 minimum billing please.

## Credit

Orders will be shipped open account to those customers that have prior approved credit status. New accounts will be shipped COD until credit is established. Accounts that have a balance over 60 days will be put on COD. Invoices that are past 30 days old will be charged a 1 1/2% per month (18% annual) finance charge. Visa and Mastercard, American Express and Discover cards are accepted.

## Taxes

Prices in this catalog do not include any state or local taxes. In those states where sales taxes apply they will be charged unless a completed sales tax exemption certificate is on file.

## Freight

All prices contained in this catalog are FOB shipping point. Shipping point is normally our warehouse but we reserve the right to ship from the factory or other points at our discretion. United Parcel Service (UPS), Parcel Post, SpeeDee (where available), LTL shipments and FEI shipments are sent prepaid and the charges will be added to the invoice. Shipments sent via FEI personnel will be charged a nominal fee.

**\* Please check all shipments for damage before signing the freight bill.**

## Returned Goods

Buyer must contact FEI's Customer Service Department for authorization prior to returning any items. NO returns will be accepted without an RA (return authorization) number. Goods returned for credit must be in saleable condition and be accompanied by the packing slip or invoice number. Items must be returned within 90 days of purchase and may be subject to a minimum 10% restocking charge. Non-stock and special order items may not be returnable as they are subject to the prior approval and return goods policy of the manufacturer. Please label all returns with your RA (return authorization) number for prompt processing. Take care to not write on the manufacturer's packaging if applicable. All returns must be shipped prepaid, in resalable condition, and are subject to inspection for damage or misuse prior to issuance of credit. If returns are being sent back with an FEI salesman, the customer must obtain an RA (return authorization) number prior to the salesman's arrival.

## Warranty

FEI does not warrant any product. All warranties are subject to the warranty of the original manufacturer. Warranty claims will be processed by FEI when items are returned freight prepaid. Examination and determination of warranty, if applicable, will be subject to and limited by the warranty of the original manufacturer. FEI assumes no liability for any unwarranted equipment.

## General

Any shortages must be reported within 5 days of receipt of shipment. If received in bad condition or a shortage exists do not fail to note this on the carrier's receipt. Responsibility for filing claims rests with the customer but we will assist you whenever possible. Special order items are not subject to cancellation and are not returnable.

## Merchandise Damaged in Transit

Check shipments upon receipt. Note any damage. Do not return goods damaged in transit to us. Do not destroy packing materials. Notify the transportation company, UPS, Post Office, or Motor Carrier immediately. They will pick up the merchandise and packing materials for inspection and settlement of your claim. FEI will assist you when filing damage or loss claims with carriers, but cannot become directly involved in the claims process. Our liability for damage in transit ceases when the carrier receives the shipment.

**\* Please check all shipments for damage before signing the freight bill.**



**FEI FAX ORDER FORM**  
**FAX 1-800-313-3299**  
1% Fax Order Discount



DATE: \_\_\_\_\_

FEI ORDER NO.: \_\_\_\_\_

**BILL TO:**

**SHIP TO:**

ZIP CODE: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

CUSTOMER NAME: \_\_\_\_\_

SHIP TO NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TOWN: \_\_\_\_\_

TOWN: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

PURCHASE ORDER # \_\_\_\_\_

PHONE: \_\_\_\_\_

SHIP VIA:

COMMENTS: \_\_\_\_\_

UPS GROUND

CPU

\_\_\_\_\_

SPEEDEE

PARCEL POST

\_\_\_\_\_

MOTOR FREIGHT

OTHER \_\_\_\_\_

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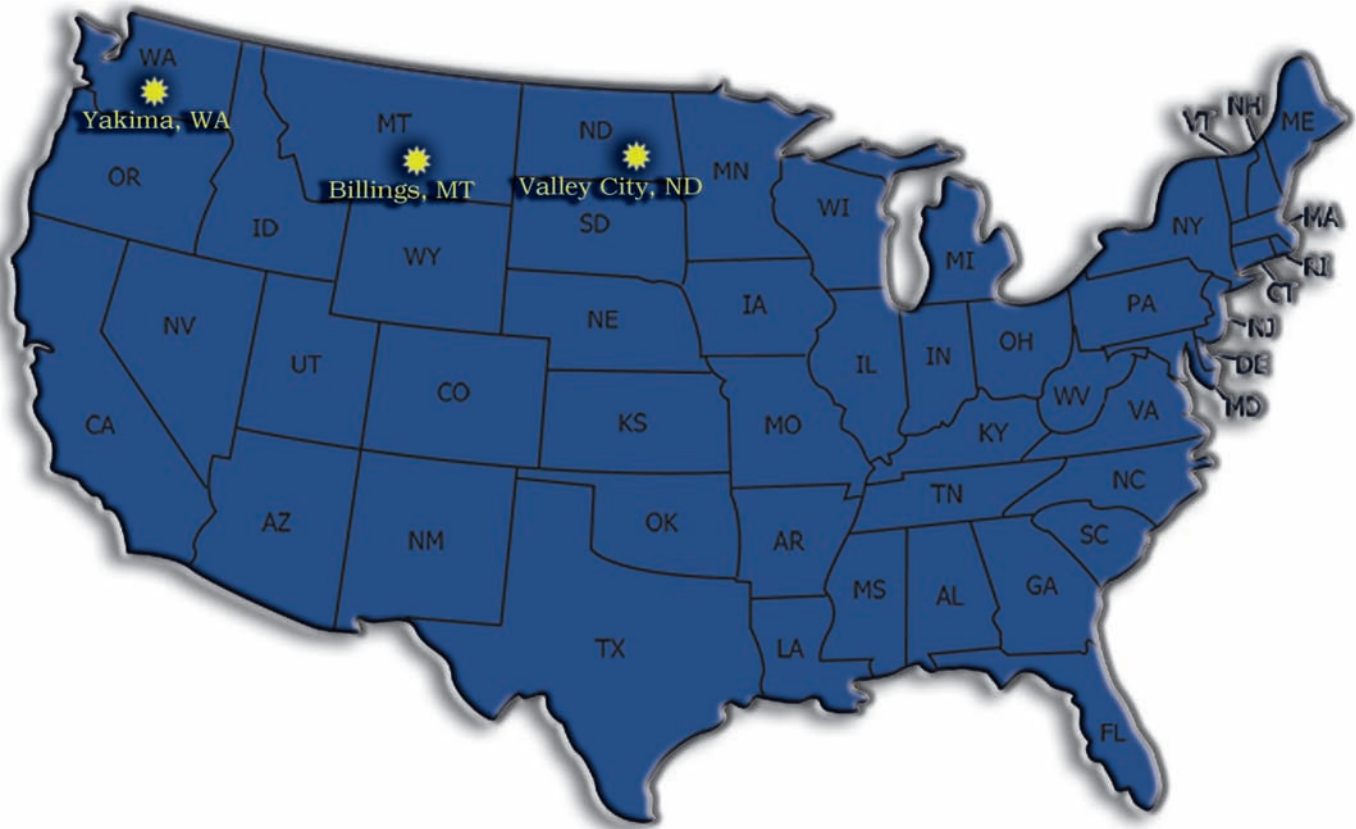
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