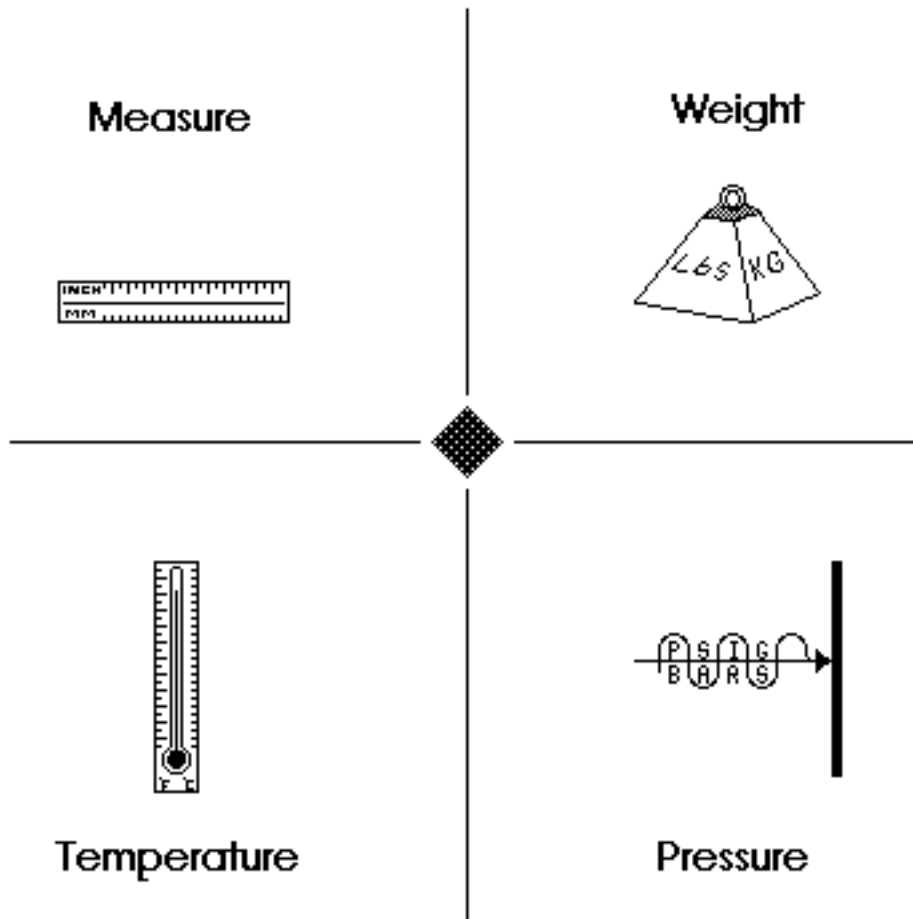




VALVES



Conversion Tables



V A L V E S

CONVERSION TABLE

INDEX

<u>Table:</u>		<u>Page:</u>
Decimal Equivalents	(1/64" - 1")	3
Inches to Millimeters	(1/64" - 1/2") 0" through 5"	4
Inches to Millimeters	(1/64" - 1/2") 6" through 11"	5
Inches to Millimeters	(33/64" - 1") 0" through 5"	6
Inches to Millimeters	(33/64" - 1") 6" through 11"	7
Temperature - Fahrenheit to Centigrade	(-350 °F to 1,500 °F)	8
Pounds Per Square Inch to Bars	(1 Psi. to 10,000 Psi.)	9
Pounds to Kilograms	(1 Lb. to 1,000 Lbs.)	10
Miscellaneous Conversion Factors		11
Reference Notes		12

This material is presented as a continuing service to our customers.

DECIMAL EQUIVALENTS

1/64" - 1"

<u>Inches</u>	<u>Decimal</u>	<u>Inches</u>	<u>Decimal</u>
1/64	.015625	33/64	.515625
1/32	.031250	17/32	.531250
3/64	.046875	35/64	.546875
1/16	.062500	9/16	.562500
5/64	.078125	37/64	.578125
3/32	.093750	19/32	.593750
7/64	.109375	39/64	.609375
1/8	.125000	5/8	.625000
9/64	.140625	41/64	.640625
5/32	.156250	21/32	.656250
11/64	.171875	43/64	.671875
3/16	.187500	11/16	.687500
13/64	.203125	45/64	.703125
7/32	.218750	23/32	.718750
15/64	.234375	47/64	.734375
1/4	.250000	3/4	.750000
17/64	.265625	49/64	.765625
9/32	.281250	25/32	.781250
19/64	.296875	51/64	.796875
5/16	.312500	13/16	.812500
21/64	.328125	53/64	.828125
11/32	.343750	27/32	.843750
23/64	.359375	55/64	.859375
3/8	.375000	7/8	.875000
25/64	.390625	57/64	.890625
13/32	.406250	29/32	.906250
27/64	.421875	59/64	.921875
7/16	.437500	15/16	.937500
29/64	.453125	61/64	.953125
15/32	.468750	31/32	.968750
31/64	.484375	63/64	.984375
1/2	.500000	1	1.000000



V A L V E S

METRIC CONVERSION

Inches to Millimeters

Inches	0	1	2	3	4	5
	Millimeters					
1/64	000.4	025.8	051.2	076.6	102.0	127.4
1/32	000.8	026.2	051.6	077.0	102.4	127.8
3/64	001.2	026.6	052.0	077.4	102.8	128.2
1/16	001.6	027.0	052.4	077.8	103.2	128.6
5/64	002.0	027.4	052.8	078.2	103.6	129.0
3/32	002.4	027.8	053.2	078.6	104.0	129.4
7/64	002.8	028.2	053.6	079.0	104.4	129.8
1/8	003.2	028.6	054.0	079.4	104.8	130.2
9/64	003.6	029.0	054.4	079.8	105.2	130.6
5/32	004.0	029.4	054.8	080.2	105.6	131.0
11/64	004.4	029.8	055.2	080.6	106.0	131.4
3/16	004.8	030.2	055.6	081.0	106.4	131.8
13/64	005.2	030.6	056.0	081.4	106.8	132.2
7/32	005.6	031.0	056.4	081.8	107.2	132.6
15/64	006.0	031.4	056.8	082.2	107.6	133.0
1/4	006.4	031.8	057.2	082.6	108.0	133.4
17/64	006.7	032.1	057.5	083.0	108.4	133.8
9/32	007.1	032.5	058.9	083.3	108.7	134.1
19/64	007.5	032.9	058.3	083.7	109.1	134.5
5/16	007.9	033.3	058.7	084.1	109.5	134.9
21/64	008.3	033.7	059.1	084.5	109.9	135.3
11/32	008.7	034.1	059.5	084.9	110.3	135.7
23/64	009.1	034.5	059.9	085.3	110.7	136.1
3/8	009.5	034.9	060.3	085.7	111.1	136.5
25/64	009.9	035.3	060.7	086.1	111.5	136.9
13/32	010.3	035.7	061.1	086.5	111.9	137.3
27/64	010.7	036.1	061.5	086.9	112.3	137.7
7/16	011.1	036.5	061.9	087.3	112.7	138.1
29/64	011.5	036.9	062.3	087.7	113.1	138.5
15/32	011.9	037.3	062.7	088.1	113.5	138.9
31/64	012.3	037.7	063.1	088.5	113.9	139.3
1/2	012.7	038.1	063.5	088.9	114.3	139.7

METRIC CONVERSION

Inches to Millimeters

Inches	6	7	8	9	10	11
	Millimeters					
1/64	152.8	178.2	203.6	229.0	254.4	279.8
1/32	153.2	178.6	204.0	229.4	254.8	280.2
3/64	153.6	179.0	204.4	229.8	255.2	280.6
1/16	154.0	179.4	204.8	230.2	255.6	281.0
5/64	154.4	179.8	205.2	230.6	256.0	281.4
3/32	154.8	180.2	205.6	231.0	256.4	281.8
7/64	155.2	180.6	206.0	231.4	256.8	282.2
1/8	155.6	181.0	206.4	231.8	257.2	282.6
9/64	156.0	181.4	206.8	232.2	257.6	283.0
5/32	156.4	181.8	207.2	232.6	258.0	283.4
11/64	156.8	182.2	207.6	233.0	258.4	283.8
3/16	157.2	182.6	208.0	233.4	258.8	284.2
13/64	157.6	183.0	208.4	233.8	259.2	284.6
7/32	158.0	183.4	208.8	234.2	259.6	285.0
15/64	158.4	183.8	209.2	234.6	260.0	285.4
1/4	158.8	184.2	209.6	235.0	260.4	285.8
17/64	159.2	184.6	210.0	235.4	260.8	286.2
9/32	159.5	185.0	210.3	235.7	261.1	286.5
19/64	160.0	185.3	210.7	236.1	261.5	286.9
5/16	160.3	185.7	211.1	236.5	261.9	287.3
21/64	160.7	186.1	211.5	236.9	262.3	287.7
11/32	161.1	186.5	211.9	237.3	262.7	288.1
23/64	161.5	186.9	212.3	237.7	263.1	288.5
3/8	161.9	187.3	212.7	238.1	263.5	288.9
25/64	162.3	187.7	213.1	238.5	263.9	289.3
13/32	162.7	188.1	213.5	238.9	264.3	289.7
27/64	163.1	188.5	213.9	239.3	264.7	290.1
7/16	163.5	188.9	214.3	239.7	265.1	290.5
29/64	163.9	189.3	214.7	240.1	265.5	290.9
15/32	164.3	189.7	215.1	240.5	265.9	291.3
31/64	164.7	190.1	215.5	240.9	266.3	291.7
1/2	165.1	190.5	215.9	241.3	266.7	292.1



V A L V E S

METRIC CONVERSION

Inches to Millimeters

Inches	0	1	2	3	4	5
	Millimeters					
33/64	013.1	038.5	063.9	089.3	114.7	140.1
17/32	013.5	038.9	064.3	089.7	115.1	140.5
35/64	013.9	039.3	064.7	090.1	115.5	140.9
9/16	014.3	039.7	065.1	090.5	115.9	141.3
37/64	014.7	040.1	065.5	090.9	116.3	141.7
19/32	015.1	040.5	065.9	091.3	116.7	142.1
39/64	015.5	040.9	066.3	091.7	117.1	142.5
5/8	015.9	041.3	066.7	092.1	117.5	142.9
41/64	016.3	041.7	067.1	092.5	117.9	143.3
21/32	016.7	042.1	067.5	092.9	118.3	143.7
43/64	017.1	042.5	067.9	093.3	118.7	144.1
11/16	017.5	042.9	068.3	093.7	119.1	144.5
45/64	017.9	043.3	068.7	094.1	119.5	144.9
23/32	018.3	043.7	069.1	094.5	119.9	145.3
47/64	018.7	044.1	069.5	094.9	120.3	145.7
3/4	019.1	044.5	069.9	095.3	120.7	146.1
49/64	019.4	044.8	070.2	095.6	121.1	146.5
25/32	019.8	045.2	070.6	096.0	121.4	146.8
51/64	020.2	045.6	071.0	096.4	121.8	147.2
13/16	020.6	046.0	071.4	096.8	122.2	147.6
53/64	021.0	046.4	071.8	097.2	122.6	148.0
27/32	021.4	046.8	072.2	097.6	123.0	148.4
55/64	021.8	047.2	072.6	098.0	123.4	148.8
7/8	022.2	047.6	073.0	098.4	123.8	149.2
57/64	022.6	048.0	073.4	098.8	124.2	149.6
29/32	023.0	048.4	073.8	099.2	124.6	150.0
59/64	023.4	048.8	074.2	099.6	125.0	150.4
15/16	023.8	049.2	074.6	100.0	125.4	150.8
61/64	024.2	049.6	075.0	100.4	125.8	151.2
31/32	024.6	050.0	075.4	100.8	126.2	151.6
63/64	025.0	050.4	075.8	101.2	126.6	152.0
1	025.4	050.8	076.2	101.6	127.0	152.4

METRIC CONVERSION

Inches to Millimeters

Inches	6	7	8	9	10	11
	Millimeters					
33/64	165.5	190.9	216.3	241.7	267.1	292.5
17/32	165.9	191.3	216.7	242.1	267.5	292.9
35/64	166.3	191.7	217.1	242.5	267.9	293.3
9/16	166.7	192.1	217.5	242.9	268.3	293.7
37/64	167.1	192.5	217.9	243.3	268.7	294.1
19/32	167.5	192.9	218.3	243.7	269.1	294.5
39/64	167.9	193.3	218.7	244.1	269.5	294.9
5/8	168.3	193.7	219.1	244.5	269.9	295.3
41/64	168.7	194.1	219.5	244.9	270.3	295.7
21/32	169.1	194.5	219.9	245.3	270.7	296.1
43/64	169.5	194.9	220.3	245.7	271.1	296.5
11/16	169.9	195.3	220.7	246.1	271.5	296.9
45/64	170.3	195.7	221.1	246.5	271.9	297.3
23/32	170.7	196.1	221.5	246.9	272.3	297.7
47/64	171.1	196.5	221.9	247.3	272.7	298.1
3/4	171.5	196.9	222.3	247.7	273.1	298.5
49/64	171.9	197.3	222.7	248.1	273.5	298.9
25/32	172.2	197.6	223.0	248.4	273.8	299.2
51/64	172.6	198.0	223.4	248.8	274.2	299.6
13/16	173.0	198.4	223.8	249.2	274.6	300.0
53/64	173.4	198.8	224.2	249.6	275.0	300.4
27/32	173.8	199.2	224.6	250.0	275.4	300.8
55/64	174.2	199.6	225.0	250.4	275.8	301.2
7/8	174.6	200.0	225.4	250.8	276.2	301.6
57/64	175.0	200.4	225.8	251.2	276.6	302.0
29/32	175.4	200.8	226.2	251.6	277.0	302.4
59/64	175.8	201.2	226.6	252.0	277.4	302.8
15/16	176.2	201.6	227.0	252.4	277.8	303.2
61/64	176.6	202.0	227.4	252.8	278.2	303.6
31/32	177.0	202.4	227.8	253.2	278.6	304.0
63/64	177.4	202.8	228.2	253.6	279.0	304.4
1	177.8	203.2	228.6	254.0	279.4	304.8



V A L V E S

TEMPERATURE CONVERSION

Fahrenheit to Centigrade

<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>
-350	-212.2	-50	-45.6	160	71.1	510	265.6
-340	-206.7	-45	-42.8	170	76.7	520	271.1
-330	-201.1	-40	-40.0	180	82.2	530	276.7
-320	-195.6	-35	-37.2	190	87.8	540	282.2
-310	-190.0	-30	-34.4	200	93.3	550	287.8
-300	-184.4	-25	-31.7	210	98.9	560	293.3
-290	-178.8	-20	-28.9	220	104.4	570	298.9
-280	-173.3	-15	-26.1	230	110.0	580	304.4
-270	-167.8	-10	-23.3	240	115.6	590	310.0
-260	-162.2	0	-17.8	250	121.1	600	315.6
-250	-156.7	10	-12.2	260	126.7	610	321.1
-240	-151.1	15	- 9.4	270	132.2	620	326.7
-230	-145.6	20	- 6.7	280	137.8	630	332.2
-220	-140.0	25	- 3.9	290	143.3	640	337.8
-210	-134.4	30	- 1.1	300	148.9	650	343.3
-200	-128.9	32	0.0	310	154.4	660	348.9
-190	-123.3	35	1.7	320	160.0	670	354.4
-180	-117.8	40	4.4	330	165.6	680	360.0
-170	-112.2	45	7.2	340	171.1	690	365.6
-160	-106.7	50	10.0	350	176.7	700	371.1
-150	-101.1	55	12.8	360	182.2	710	376.7
-140	-95.6	60	15.6	370	187.8	720	382.2
-130	-90.0	65	18.3	380	193.3	730	387.8
-120	-84.4	70	21.1	390	198.9	740	393.3
-110	-78.9	75	23.9	400	204.4	750	398.9
-100	-73.3	80	26.7	410	210.0	800	426.7
-95	-70.6	85	29.4	420	215.6	850	454.4
-90	-67.8	90	32.2	430	221.1	900	482.2
-85	-65.0	95	35.0	440	226.7	950	510.0
-80	-62.2	100	37.8	450	232.2	1,000	537.8
-75	-59.5	110	43.3	460	237.8	1,100	593.3
-70	-56.7	120	48.9	470	243.3	1,200	648.9
-65	-53.9	130	54.4	480	248.9	1,300	704.4
-60	-51.1	140	60.0	490	254.4	1,400	760.0
-55	-48.3	150	65.6	500	260.0	1,500	815.6

PRESSURE CONVERSION

Pounds Per Square Inch to Bars

<u>Psi.</u>	<u>Bars</u>	<u>Psi.</u>	<u>Bars</u>	<u>Psi.</u>	<u>Bars</u>	<u>Psi.</u>	<u>Bars</u>
1	.0689	750	51.7106	2,500	172.3685	4,250	293.0269
2	.1379	800	55.1580	2,550	175.8161	4,300	296.4743
3	.2068	850	58.6054	2,600	179.2635	4,350	299.9216
4	.2758	900	62.0528	2,650	182.7109	4,400	303.3690
5	.3447	950	65.5001	2,700	186.1583	4,450	306.8164
6	.4137	1,000	68.9475	2,750	189.6055	4,500	310.2638
7	.4826	1,050	72.3949	2,800	193.0530	4,550	313.7111
8	.5516	1,100	75.8423	2,850	196.5004	4,600	317.1585
9	.6205	1,150	79.2896	2,900	199.9478	4,650	320.6059
10	.6895	1,200	82.7370	2,950	203.3951	4,700	324.0533
11	.7584	1,250	86.1844	3,000	206.8425	4,750	327.5006
12	.8274	1,300	89.6318	3,050	210.2899	4,800	330.9480
13	.8963	1,350	93.0791	3,100	213.7373	4,850	334.3954
14	.9653	1,400	96.5265	3,150	217.1846	4,900	337.8428
15	1.0342	1,450	99.9739	3,200	220.6320	4,950	341.2901
30	2.0684	1,500	103.4213	3,250	224.0794	5,000	344.7375
45	3.1026	1,550	106.8686	3,300	227.5268	5,050	348.1849
60	4.1369	1,600	110.3160	3,350	230.9734	5,100	351.6323
75	5.1711	1,650	113.7634	3,400	234.4215	5,150	355.0796
90	6.2053	1,700	117.2108	3,450	237.8689	5,200	358.5270
105	7.2395	1,750	120.6581	3,500	241.3163	5,250	361.9744
120	8.2737	1,800	124.1055	3,550	244.7636	5,300	365.4218
135	9.3079	1,850	127.5529	3,600	248.2110	5,350	368.8691
150	10.3421	1,900	131.0003	3,650	251.6584	5,400	372.3165
200	13.7895	1,950	134.4476	3,700	255.1058	5,450	375.7639
250	17.2369	2,000	137.8950	3,750	258.5531	5,500	379.2113
300	20.6843	2,050	141.3424	3,800	262.0005	6,000	413.6850
350	24.1316	2,100	144.7898	3,850	265.4479	6,500	448.1588
400	27.5790	2,150	148.2371	3,900	268.8953	7,000	482.6325
450	31.0264	2,200	151.6845	3,950	272.3426	7,500	517.1063
500	34.4738	2,250	155.1319	4,000	275.7900	8,000	551.5800
550	37.9211	2,300	158.5793	4,050	279.2374	8,500	586.0538
600	41.3685	2,350	162.0266	4,100	282.6848	9,000	620.5275
650	44.8159	2,400	165.4740	4,150	286.1321	9,500	655.0013
700	48.2634	2,450	168.9214	4,200	289.5795	10,000	689.4750



V A L V E S

WEIGHT CONVERSION

Pounds to Kilograms

<u>Lbs.</u>	<u>Kg.</u>	<u>Lbs.</u>	<u>Kg.</u>
1	.45	170	77.11
2	.91	180	81.65
3	1.36	190	86.18
4	1.81	200	90.72
5	2.27	210	95.26
6	2.72	220	99.79
7	3.18	230	104.33
8	3.63	240	108.86
9	4.03	250	113.40
10	4.54	260	117.94
15	6.80	270	122.47
20	9.07	280	127.01
25	11.34	290	131.54
30	13.61	300	136.08
35	15.88	310	140.62
40	18.14	320	145.15
45	20.41	330	149.69
50	22.68	340	154.22
55	24.95	350	158.76
60	27.22	360	163.30
65	29.48	370	167.83
70	31.75	380	172.37
75	34.02	390	176.90
80	36.28	400	181.44
85	38.56	450	204.12
90	40.82	500	226.80
95	43.09	550	249.48
100	45.36	600	272.16
110	49.90	650	294.84
120	54.43	700	317.52
130	58.97	750	340.20
140	63.50	800	362.88
150	68.04	900	408.24
160	72.58	1000	453.60

MISCELLANEOUS CONVERSION FACTORS

<u>From:</u>	<u>To:</u>	<u>Factor</u>	<u>From:</u>	<u>To:</u>	<u>Factor:</u>
Atmospheres	cm of Hg at 0 °C	76	Liters	gallons (U.S.)	0.2642
Atmospheres	gm/cm ²	1033.3	Liters	ounces (U.S. fluid)	33.8143
Atmospheres	inches of Hg at 32 °F	29.921	Liters	pints (U.S. Liquid)	2.11336
Atmospheres	lb/in ²	14.696	Liters	quarts (U.S. Liquid)	1.05668
Btu	calories (gram)	252	Meters	angstrom units	1x10 ¹⁰
Calories, gram	Btu	3.968x10 ³	Meters	feet (U.S.)	3.28083
Centimeters	angstrom units	1x10 ⁸	Meters	inches (U.S.)	39.3700
Centimeters	feet	0.032808	Microns	angstrom units	1x10 ⁴
Cubic cm	cubic inches	0.061023	Microns	inches	3.937x10 ⁻⁵
Cubic cm	gallons (U.S.)	2.6417x10 ⁻⁴	Millimeters	inches (U.S.)	0.03937
Cubic cm	ounces (U.S. fluid)	0.033814	Ounces (avoir.)	grams	28.3495
Cubic ft.	cubic cm	28317	Ounces	(U.S. fluid) cubic cm	29.5737
Cubic ft.	cubic meters	0.02832	Ounces	(U.S. fluid) cubic inches	1.8047
Cubic ft.	gallons (U.S.)	7.481	Ounces	(U.S. fluid) liters	0.02957
Cubic ft	liters	28.316	Pints	(U.S. liquid) cubic cm	473.179
Cubic in. (U.S.)	cubic cm	16.3872	Pints	(U.S. liquid) liters	0.473168
Cubic in. (U.S.)	liters	0.016387	Pounds (avoir.)	grams	453.5924
Cubic yd (U.S.)	cubic meters	0.7646	Square cm	square inches	0.1550
Feet (U.S.)	centimeters	30.48	Square in. (U.S.)	square cm	6.5416
Feet (U.S.)	meters	0.3048			
Gallons (U.S.)	cubic centimeters	3785.4	Metric	Convrsion	Factors
Gallons (U.S.)	cubic feet	0.13368	ft.	m	3.0480x10 ⁻¹
Gallons (U.S.)	cubic inches	231	ft ²	m ²	9.2903x10 ⁻²
Gallons (U.S.)	liters	3.7854	ft ³	m ³	2.8317x10 ⁻²
Grams	ounces (avoir.)	0.03527	ft. lbf	J	1.3558
Grams	pounds (avoir.)	0.002205	ft. lbf/s	W	1.3558
Horsepower	Btu (mean)/min	42.418	in	m	2.5400x10 ⁻²
Horsepower	calories, log (mean)/min	10.688	in. ²	m ²	6.4516x10 ⁻⁴
Inches of Hg at 32 °C	atmospheres	0.033421	in. ³	m ³	1.6387x10 ⁻⁵
Inches of Hg at 32 °C	feet of water at 39.1 °F	1.13299	lbf	N	4.4482
Inches of water at 39.2°F	inches of Hg	0.073554	lbf.in.	N.M	1.1298x10 ⁻¹
Kilograms	ounces (avoir.)	35.274	lbf.ft.	N.M	1.3558
Kilograms	pounds (avoir.)	2.2046			
Liters	cubic feet	0.0355316			

