

RS-51 PRESSURE & TEMPERATURE TABLE : ABSOLUTE

TEMPERATURE	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
(oF)	(kPa)	(kPa)	(bara)	(bara)	(psia)	(psia)
-80	98.76	17.55	0.9876	0.1755	14.32	2.55
-78	104.15	18.90	1.0415	0.1890	15.10	2.74
-76	109.77	20.34	1.0977	0.2034	15.92	2.95
-74	115.62	21.86	1.1562	0.2186	16.76	3.17
-72	121.70	23.48	1.2170	0.2348	17.65	3.40
-70	128.03	25.19	1.2803	0.2519	18.56	3.65
-68	134.61	27.01	1.3461	0.2701	19.52	3.92
-66	141.44	28.93	1.4144	0.2893	20.51	4.19
-64	148.53	30.96	1.4853	0.3096	21.54	4.49
-62	155.90	33.10	1.5590	0.3310	22.61	4.80
-60	163.53	35.37	1.6353	0.3537	23.71	5.13
-58	171.45	37.76	1.7145	0.3776	24.86	5.47
-56	179.65	40.28	1.7965	0.4028	26.05	5.84
-54	188.15	42.94	1.8815	0.4294	27.28	6.23
-52	196.95	45.73	1.9695	0.4573	28.56	6.63
-50	206.05	48.67	2.0605	0.4867	29.88	7.06
-48	215.47	51.77	2.1547	0.5177	31.24	7.51
-46	225.20	55.02	2.2520	0.5502	32.65	7.98
-44	235.27	58.43	2.3527	0.5843	34.11	8.47
-42	245.66	62.01	2.4566	0.6201	35.62	8.99
-40	256.40	65.77	2.5640	0.6577	37.18	9.54
-38	267.48	69.71	2.6748	0.6971	38.78	10.11
-36	278.91	73.83	2.7891	0.7383	40.44	10.71
-34	290.71	78.15	2.9071	0.7815	42.15	11.33
-32	302.87	82.67	3.0287	0.8267	43.92	11.99
-30	315.41	87.39	3.1541	0.8739	45.73	12.67
-28	328.32	92.33	3.2832	0.9233	47.61	13.39
-26	341.62	97.49	3.4162	0.9749	49.53	14.14
-24	355.32	102.87	3.5532	1.0287	51.52	14.92
-22	369.41	108.49	3.6941	1.0849	53.56	15.73
-20	383.91	114.35	3.8391	1.1435	55.67	16.58
-18	398.83	120.46	3.9883	1.2046	57.83	17.47
-16	414.16	126.83	4.1416	1.2683	60.05	18.39
-14	429.93	133.46	4.2993	1.3346	62.34	19.35
-12	446.12	140.36	4.4612	1.4036	64.69	20.35
-10	462.76	147.54	4.6276	1.4754	67.10	21.39
-8	479.85	155.00	4.7985	1.5500	69.58	22.48
-6	497.39	162.77	4.9739	1.6277	72.12	23.60
-4	515.39	170.83	5.1539	1.7083	74.73	24.77
-2	533.85	179.21	5.3385	1.7921	77.41	25.99
0	552.79	187.90	5.5279	1.8790	80.15	27.25
2	572.22	196.93	5.7222	1.9693	82.97	28.55
4	592.13	206.29	5.9213	2.0629	85.86	29.91
6	612.53	215.99	6.1253	2.1599	88.82	31.32
8	633.44	226.05	6.3344	2.2605	91.85	32.78
10	654.85	236.47	6.5485	2.3647	94.95	34.29
12	676.78	247.27	6.7678	2.4727	98.13	35.85
14	699.22	258.45	6.9922	2.5845	101.39	37.48
16	722.20	270.01	7.2220	2.7001	104.72	39.15
18	745.70	281.98	7.4570	2.8198	108.13	40.89
20	769.75	294.35	7.6975	2.9435	111.61	42.68
22	794.35	307.15	7.9435	3.0715	115.18	44.54
24	819.49	320.37	8.1949	3.2037	118.83	46.45
26	845.20	334.04	8.4520	3.3404	122.55	48.44
28	871.47	348.15	8.7147	3.4815	126.36	50.48
30	898.31	362.72	8.9831	3.6272	130.25	52.59
32	925.74	377.76	9.2574	3.7776	134.23	54.78
34	953.74	393.27	9.5374	3.9327	138.29	57.02
36	982.34	409.28	9.8234	4.0928	142.44	59.35
38	1011.50	425.79	10.1150	4.2579	146.67	61.74
40	1041.30	442.81	10.4130	4.4281	150.99	64.21
42	1071.70	460.35	10.7170	4.6035	155.40	66.75
44	1102.80	478.43	11.0280	4.7843	159.91	69.37
46	1134.40	497.04	11.3440	4.9704	164.49	72.07
48	1166.70	516.22	11.6670	5.1622	169.17	74.85
50	1199.60	535.96	11.9960	5.3596	173.94	77.71
52	1233.10	556.28	12.3310	5.5628	178.80	80.66

54	1267.30	577.19	12.6730	5.7719	183.76	83.69
56	1302.10	598.70	13.0210	5.9870	188.80	86.81
58	1337.60	620.83	13.3760	6.2083	193.95	90.02
60	1373.80	643.58	13.7380	6.4358	199.20	93.32
62	1410.60	666.97	14.1060	6.6697	204.54	96.71
64	1448.10	691.01	14.4810	6.9101	209.97	100.20
66	1486.20	715.72	14.8620	7.1572	215.50	103.78
68	1525.10	741.11	15.2510	7.4111	221.14	107.46
70	1564.60	767.18	15.6460	7.6718	226.87	111.24
72	1604.80	793.96	16.0480	7.9396	232.70	115.12
74	1645.80	821.45	16.4580	8.2145	238.64	119.11
76	1687.40	849.68	16.8740	8.4968	244.67	123.20
78	1729.70	878.65	17.2970	8.7865	250.81	127.40
80	1772.80	908.37	17.7280	9.0837	257.06	131.71
82	1816.60	938.87	18.1660	9.3887	263.41	136.14
84	1861.00	970.16	18.6100	9.7016	269.85	140.67
86	1906.30	1002.30	19.0630	10.0230	276.41	145.33
88	1952.20	1035.20	19.5220	10.3520	283.07	150.10
90	1998.90	1068.90	19.9890	10.6890	289.84	154.99
92	2046.30	1103.50	20.4630	11.0350	296.71	160.01
94	2094.50	1138.90	20.9450	11.3890	303.70	165.14
96	2143.40	1175.30	21.4340	11.7530	310.79	170.42
98	2193.00	1212.50	21.9300	12.1250	317.99	175.81
100	2243.50	1250.70	22.4350	12.5070	325.31	181.35
102	2294.60	1289.70	22.9460	12.8970	332.72	187.01
104	2346.60	1329.80	23.4660	13.2980	340.26	192.82
106	2399.20	1370.80	23.9920	13.7080	347.88	198.77
108	2452.70	1412.70	24.5270	14.1270	355.64	204.84
110	2506.90	1455.70	25.0690	14.5570	363.50	211.08
112	2561.90	1499.70	25.6190	14.9970	371.48	217.46
114	2617.70	1544.80	26.1770	15.4480	379.57	224.00
116	2674.20	1590.90	26.7420	15.9090	387.76	230.68
118	2731.50	1638.10	27.3150	16.3810	396.07	237.52
120	2789.60	1686.40	27.8960	16.8640	404.49	244.53
122	2848.50	1735.80	28.4850	17.3580	413.03	251.69
124	2908.10	1786.40	29.0810	17.8640	421.67	259.03
126	2968.50	1838.20	29.6850	18.3820	430.43	266.54
128	3029.70	1891.20	30.2970	18.9120	439.31	274.22
130	3091.60	1945.40	30.9160	19.4540	448.28	282.08
132	3154.40	2000.80	31.5440	20.0080	457.39	290.12
134	3217.80	2057.50	32.1780	20.5750	466.58	298.34
136	3282.10	2115.60	32.8210	21.1560	475.90	306.76
138	3347.10	2175.00	33.4710	21.7500	485.33	315.38
140	3412.80	2235.70	34.1280	22.3570	494.86	324.18
142	3479.30	2297.90	34.7930	22.9790	504.50	333.20
144	3546.60	2361.50	35.4660	23.6150	514.26	342.42
146	3614.50	2426.50	36.1450	24.2650	524.10	351.84
148	3683.20	2493.10	36.8320	24.9310	534.06	361.50
150	3752.50	2561.30	37.5250	25.6130	544.11	371.39
152	3822.60	2631.00	38.2260	26.3100	554.28	381.50
154	3893.30	2702.40	38.9330	27.0240	564.53	391.85
156	3964.70	2775.50	39.6470	27.7550	574.88	402.45
158	4036.60	2850.30	40.3660	28.5030	585.31	413.29
160	4109.20	2927.00	41.0920	29.2700	595.83	424.42
162	4182.30	3005.50	41.8230	30.0550	606.43	435.80
164	4256.00	3085.90	42.5600	30.8590	617.12	447.46
166	4330.10	3168.40	43.3010	31.6840	627.86	459.42
168	4404.60	3253.00	44.0460	32.5300	638.67	471.69
170	4479.50	3339.80	44.7950	33.3980	649.53	484.27
172	4554.70	3428.80	45.5470	34.2880	660.43	497.18
174	4630.10	3520.30	46.3010	35.2030	671.36	510.44
176	4705.60	3614.40	47.0560	36.1440	682.31	524.09
178	4781.00	3711.20	47.8100	37.1120	693.25	538.12
180	4856.30	3810.80	48.5630	38.1080	704.16	552.57
182	4931.20	3913.60	49.3120	39.1360	715.02	567.47
184	5005.50	4019.80	50.0550	40.1980	725.80	582.87
186	5078.80	4129.80	50.7880	41.2980	736.43	598.82
188	5150.90	4243.90	51.5090	42.4390	746.88	615.37
190	5221.00	4362.80	52.2100	43.6280	757.05	632.61
192	5288.40	4487.30	52.8840	44.8730	766.82	650.66
194	5352.00	4618.50	53.5200	46.1850	776.04	669.68
196	5409.80	4758.60	54.0980	47.5860	784.42	690.00
198	5457.90	4911.20	54.5790	49.1120	791.40	712.12
200	5486.80	5085.40	54.8680	50.8540	795.59	737.38

RS-51 PRESSURE & TEMPERATURE TABLE : GAUGE

TEMPERATURE (oF)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
	(kPag)	(kPag)	(barg)	(barg)	(psig)	(psig)
-80	-1.24	-82.45	-0.01	-0.82	-0.38	-12.15
-78	4.15	-81.10	0.04	-0.81	0.40	-11.96
-76	9.77	-79.66	0.10	-0.80	1.22	-11.75
-74	15.62	-78.14	0.16	-0.78	2.06	-11.53
-72	21.70	-76.52	0.22	-0.77	2.95	-11.30
-70	28.03	-74.81	0.28	-0.75	3.86	-11.05
-68	34.61	-73.00	0.35	-0.73	4.82	-10.78
-66	41.44	-71.08	0.41	-0.71	5.81	-10.51
-64	48.53	-69.04	0.49	-0.69	6.84	-10.21
-62	55.90	-66.90	0.56	-0.67	7.91	-9.90
-60	63.53	-64.63	0.64	-0.65	9.01	-9.57
-58	71.45	-62.24	0.71	-0.62	10.16	-9.23
-56	79.65	-59.72	0.80	-0.60	11.35	-8.86
-54	88.15	-57.07	0.88	-0.57	12.58	-8.47
-52	96.95	-54.27	0.97	-0.54	13.86	-8.07
-50	106.05	-51.33	1.06	-0.51	15.18	-7.64
-48	115.47	-48.23	1.15	-0.48	16.54	-7.19
-46	125.20	-44.98	1.25	-0.45	17.95	-6.72
-44	135.27	-41.57	1.35	-0.42	19.41	-6.23
-42	145.66	-37.99	1.46	-0.38	20.92	-5.71
-40	156.40	-34.23	1.56	-0.34	22.48	-5.16
-38	167.48	-30.30	1.67	-0.30	24.08	-4.59
-36	178.91	-26.17	1.79	-0.26	25.74	-3.99
-34	190.71	-21.85	1.91	-0.22	27.45	-3.37
-32	202.87	-17.33	2.03	-0.17	29.22	-2.71
-30	215.41	-12.61	2.15	-0.13	31.03	-2.03
-28	228.32	-7.67	2.28	-0.08	32.91	-1.31
-26	241.62	-2.51	2.42	-0.03	34.83	-0.56
-24	255.32	2.87	2.55	0.03	36.82	0.22
-22	269.41	8.49	2.69	0.08	38.86	1.03
-20	283.91	14.35	2.84	0.14	40.97	1.88
-18	298.83	20.46	2.99	0.20	43.13	2.77
-16	314.16	26.83	3.14	0.27	45.35	3.69
-14	329.93	33.46	3.30	0.33	47.64	4.65
-12	346.12	40.36	3.46	0.40	49.99	5.65
-10	362.76	47.54	3.63	0.48	52.40	6.69
-8	379.85	55.00	3.80	0.55	54.88	7.78
-6	397.39	62.77	3.97	0.63	57.42	8.90
-4	415.39	70.83	4.15	0.71	60.03	10.07
-2	433.85	79.21	4.34	0.79	62.71	11.29
0	452.79	87.90	4.53	0.88	65.45	12.55
2	472.22	96.93	4.72	0.97	68.27	13.85
4	492.13	106.29	4.92	1.06	71.16	15.21
6	512.53	115.99	5.13	1.16	74.12	16.62
8	533.44	126.05	5.33	1.26	77.15	18.08
10	554.85	136.47	5.55	1.36	80.25	19.59
12	576.78	147.27	5.77	1.47	83.43	21.15
14	599.22	158.45	5.99	1.58	86.69	22.78
16	622.20	170.01	6.22	1.70	90.02	24.45
18	645.70	181.98	6.46	1.82	93.43	26.19
20	669.75	194.35	6.70	1.94	96.91	27.98
22	694.35	207.15	6.94	2.07	100.48	29.84
24	719.49	220.37	7.19	2.20	104.13	31.75
26	745.20	234.04	7.45	2.34	107.85	33.74
28	771.47	248.15	7.71	2.48	111.66	35.78
30	798.31	262.72	7.98	2.63	115.55	37.89
32	825.74	277.76	8.26	2.78	119.53	40.08
34	853.74	293.27	8.54	2.93	123.59	42.32
36	882.34	309.28	8.82	3.09	127.74	44.65
38	911.50	325.79	9.12	3.26	131.97	47.04
40	941.30	342.81	9.41	3.43	136.29	49.51
42	971.70	360.35	9.72	3.60	140.70	52.05
44	1002.80	378.43	10.03	3.78	145.21	54.67
46	1034.40	397.04	10.34	3.97	149.79	57.37
48	1066.70	416.22	10.67	4.16	154.47	60.15
50	1099.60	435.96	11.00	4.36	159.24	63.01
52	1133.10	456.28	11.33	4.56	164.10	65.96

54	1167.30	477.19	11.67	4.77	169.06	68.99
56	1202.10	498.70	12.02	4.99	174.10	72.11
58	1237.60	520.83	12.38	5.21	179.25	75.32
60	1273.80	543.58	12.74	5.44	184.50	78.62
62	1310.60	566.97	13.11	5.67	189.84	82.01
64	1348.10	591.01	13.48	5.91	195.27	85.50
66	1386.20	615.72	13.86	6.16	200.80	89.08
68	1425.10	641.11	14.25	6.41	206.44	92.76
70	1464.60	667.18	14.65	6.67	212.17	96.54
72	1504.80	693.96	15.05	6.94	218.00	100.42
74	1545.80	721.45	15.46	7.21	223.94	104.41
76	1587.40	749.68	15.87	7.50	229.97	108.50
78	1629.70	778.65	16.30	7.79	236.11	112.70
80	1672.80	808.37	16.73	8.08	242.36	117.01
82	1716.60	838.87	17.17	8.39	248.71	121.44
84	1761.00	870.16	17.61	8.70	255.15	125.97
86	1806.30	902.30	18.06	9.02	261.71	130.63
88	1852.20	935.20	18.52	9.35	268.37	135.40
90	1898.90	968.90	18.99	9.69	275.14	140.29
92	1946.30	1003.50	19.46	10.04	282.01	145.31
94	1994.50	1038.90	19.95	10.39	289.00	150.44
96	2043.40	1075.30	20.43	10.75	296.09	155.72
98	2093.00	1112.50	20.93	11.13	303.29	161.11
100	2143.50	1150.70	21.44	11.51	310.61	166.65
102	2194.60	1189.70	21.95	11.90	318.02	172.31
104	2246.60	1229.80	22.47	12.30	325.56	178.12
106	2299.20	1270.80	22.99	12.71	333.18	184.07
108	2352.70	1312.70	23.53	13.13	340.94	190.14
110	2406.90	1355.70	24.07	13.56	348.80	196.38
112	2461.90	1399.70	24.62	14.00	356.78	202.76
114	2517.70	1444.80	25.18	14.45	364.87	209.30
116	2574.20	1490.90	25.74	14.91	373.06	215.98
118	2631.50	1538.10	26.32	15.38	381.37	222.82
120	2689.60	1586.40	26.90	15.86	389.79	229.83
122	2748.50	1635.80	27.49	16.36	398.33	236.99
124	2808.10	1686.40	28.08	16.86	406.97	244.33
126	2868.50	1738.20	28.69	17.38	415.73	251.84
128	2929.70	1791.20	29.30	17.91	424.61	259.52
130	2991.60	1845.40	29.92	18.45	433.58	267.38
132	3054.40	1900.80	30.54	19.01	442.69	275.42
134	3117.80	1957.50	31.18	19.58	451.88	283.64
136	3182.10	2015.60	31.82	20.16	461.20	292.06
138	3247.10	2075.00	32.47	20.75	470.63	300.68
140	3312.80	2135.70	33.13	21.36	480.16	309.48
142	3379.30	2197.90	33.79	21.98	489.80	318.50
144	3446.60	2261.50	34.47	22.62	499.56	327.72
146	3514.50	2326.50	35.15	23.27	509.40	337.14
148	3583.20	2393.10	35.83	23.93	519.36	346.80
150	3652.50	2461.30	36.53	24.61	529.41	356.69
152	3722.60	2531.00	37.23	25.31	539.58	366.80
154	3793.30	2602.40	37.93	26.02	549.83	377.15
156	3864.70	2675.50	38.65	26.76	560.18	387.75
158	3936.60	2750.30	39.37	27.50	570.61	398.59
160	4009.20	2827.00	40.09	28.27	581.13	409.72
162	4082.30	2905.50	40.82	29.06	591.73	421.10
164	4156.00	2985.90	41.56	29.86	602.42	432.76
166	4230.10	3068.40	42.30	30.68	613.16	444.72
168	4304.60	3153.00	43.05	31.53	623.97	456.99
170	4379.50	3239.80	43.80	32.40	634.83	469.57
172	4454.70	3328.80	44.55	33.29	645.73	482.48
174	4530.10	3420.30	45.30	34.20	656.66	495.74
176	4605.60	3514.40	46.06	35.14	667.61	509.39
178	4681.00	3611.20	46.81	36.11	678.55	523.42
180	4756.30	3710.80	47.56	37.11	689.46	537.87
182	4831.20	3813.60	48.31	38.14	700.32	552.77
184	4905.50	3919.80	49.06	39.20	711.10	568.17
186	4978.80	4029.80	49.79	40.30	721.73	584.12
188	5050.90	4143.90	50.51	41.44	732.18	600.67
190	5121.00	4262.80	51.21	42.63	742.35	617.91
192	5188.40	4387.30	51.88	43.87	752.12	635.96
194	5252.00	4518.50	52.52	45.19	761.34	654.98
196	5309.80	4658.60	53.10	46.59	769.72	675.30
198	5357.90	4811.20	53.58	48.11	776.70	697.42
200	5386.80	4985.40	53.87	49.85	780.89	722.68