



Steam Tables (Page 1)

To help with understanding the various Steam Volumes, Pressures and Saturation Temperatures used frequently in industry, Valves Instruments Plus have produced the following Steam Tables Chart.

General Pressure		Absolute Pressure		Saturation Temperature		Specific Enthalpy				Specific Volume Steam (vg)	
bar g	lbf/in g	bar a	lbf/in a	°C	°F	Water Sensible heat (hf) KJ/kg	Evaporation Latent heat (hfg) kJ/kg	Water Sensible heat (hf) Btu/lb	Evaporation Latent heat (hfg) Btu/lb	m/kg	ft/lb
-0.96	-28.4	0.05	0.725	32.9	91	138	2423	59	1042	28.2	452
-0.51	-15.1	0.5	7.25	81.3	178	341	2305	147	991	3.24	51.9
-0.01	-0.38	1.0	14.5	99.6	211	418	2258	179	971	1.69	27.1
0	0	1.013	14.696	100	212	419	2257	180	970	1.67	26.8
0.1	1.45	1.11	16.1	103	217	430	2250	185	967	1.53	24.5
0.2	2.9	1.21	17.5	105	221	441	2243	190	964	1.41	22.6
0.3	4.35	1.31	19.0	107	225	450	2237	194	962	4.31	21.0
0.4	5.80	1.41	20.5	110	230	460	2231	198	959	1.23	19.7
0.5	7.25	1.51	21.9	112	234	468	2226	201	957	1.15	18.4
0.6	8.70	1.61	23.4	114	237	476	2220	205	954	1.08	17.3
0.7	10.2	1.71	24.8	115	239	484	2215	208	952	1.02	16.3
0.8	11.6	1.81	26.3	117	243	492	2211	212	951	0.971	15.6
0.9	13.1	1.91	27.7	119	246	499	2206	215	948	0.923	14.8
1.0	14.5	2.01	29.2	120	248	506	2201	218	946	0.881	14.1
1.1	16.0	2.11	30.6	122	252	512	2197	220	945	0.841	13.5
1.2	17.4	2.21	32.1	123	253	519	2193	223	943	0.806	12.9
1.3	18.9	2.31	33.5	125	257	525	2189	226	941	0.773	12.4
1.4	20.3	2.41	35.0	126	259	531	2189	228	939	0.743	11.9
1.5	21.8	2.51	36.4	128	262	536	2181	230	938	0.714	11.4
1.6	23.2	2.61	37.9	129	264	542	2177	233	936	0.689	11.0
1.7	24.7	2.71	39.9	130	266	547	2174	235	935	0.665	10.7
1.8	26.1	2.81	40.8	131	268	552	2170	237	933	0.643	10.3
1.9	27.6	2.91	42.2	133	271	557	2167	240	932	0.622	9.96
2.0	29.0	3.01	43.7	134	273	562	2163	242	930	0.603	9.66
2.2	31.9	3.21	46.6	136	277	572	2157	246	927	0.568	9.10
2.4	34.8	3.41	49.5	138	280	581	2151	250	925	0.536	8.59
2.6	37.7	3.61	52.4	140	284	589	2145	253	922	0.509	8.15
2.8	40.6	3.81	55.3	142	288	597	2139	257	920	0.483	7.74
3.0	43.5	4.01	58.2	144	289	605	2133	260	917	0.461	7.38
3.2	46.4	4.21	61.1	146	293	613	2128	264	915	0.440	7.05
3.4	49.3	4.41	64.0	147	297	620	2123	267	913	0.422	6.76
3.6	52.2	4.61	66.9	149	298	627	2118	270	911	0.405	6.49
3.8	55.1	4.81	69.8	150	302	634	2113	273	908	0.389	6.23
4.0	58.0	5.01	72.7	152	304	641	2108	276	906	0.374	5.99
4.2	60.9	5.21	75.6	153	307	647	2104	278	905	0.361	5.78





Steam Tables (Page 2)

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bar g	lbf/in g	bar a	lbf/in a	°C	°F	Water Sensible heat (hf) KJ/kg	Evaporation Latent heat (hfg) kJ/kg	Water Sensible heat (hf) Btu/lb	Evaporation Latent heat (hfg) Btu/lb	m/kg	ft/lb
4.4	63.8	5.41	78.5	155	309	653	2099	281	902	0.348	5.57
4.6	66.7	5.61	81.4	156	313	659	2095	283	901	0.336	5.38
4.8	69.6	5.81	84.3	158	315	665	2090	286	899	0.325	5.21
5.0	72.5	6.01	87.2	159	316	671	2086	289	897	0.315	5.01
5.5	79.8	6.51	94.4	162	324	685	2076	295	893	0.292	4.68
6.0	87.0	7.01	102	165	329	698	2066	300	888	0.272	4.36
6.5	94.3	7.51	109	168	333	710	2057	305	884	0.255	4.09
7.0	102	8.01	116	171	338	721	2048	310	880	0.240	3.84
7.5	109	8.51	123	173	343	733	2039	315	877	0.227	3.64
8.0	116	9.01	131	175	347	743	2031	319	873	0.215	3.44
8.5	123	9.51	138	178	351	753	2023	324	870	0.204	3.27
9.0	131	10.0	145	180	354	763	2015	328	866	0.194	3.11
9.5	138	10.5	152	182	360	773	2008	332	863	0.185	2.93
10.0	145	11.0	160	184	363	782	2000	336	860	0.177	2.84
10.5	152	11.5	167	186	367	790	1993	340	857	0.171	2.74
11.0	160	12.0	174	188	370	798	1986	344	854	0.163	2.61
11.5	167	12.5	181	190	374	807	1979	347	851	0.157	2.51
12.0	174	13.0	189	192	376	815	1973	350	848	0.151	2.42
12.5	181	13.5	196	193	379	823	1966	354	845	0.146	2.34
13.0	189	14.0	203	195	383	830	1960	357	843	0.141	2.26
13.5	196	14.5	210	197	385	838	1953	360	840	0.136	2.18
14.0	203	15.0	218	198	388	845	1947	363	837	0.132	2.11
14.5	210	15.5	225	200	392	852	1941	366	834	0.128	2.05
15.0	218	16.0	232	202	394	859	1935	369	832	0.124	1.99
15.5	225	16.5	239	203	397	866	1929	372	829	0.120	1.92
16.0	232	17.0	247	204	399	872	1923	375	827	0.117	1.87
20.0	290	21.0	305	215	419	920	1880	396	808	0.0949	1.52
25.0	363	26.0	377	226	439	972	1831	418	787	0.0768	1.23
30.0	435	31.0	450	236	457	1017	1787	437	768	0.0645	1.03
35.0	508	36.0	522	244	471	1058	1746	455	751	0.0554	0.887
40.0	580	41.0	595	252	486	1095	1706	471	733	0.0485	0.777

