

Table 1 : Steam table

	Pressure		Temperature °C	Specific Enthalpy			Specific Volume of Steam m ³ /kg	Specific Volume of Water dm ³ /kg
	bar	kPa		Enthalpy of Water (hf) kJ/kg	Heat of Vaporization (hfg) kJ/kg	Steam (hg) kJ/kg		
	absolute							
	0.30	30.0	69.10	289.23	2336.1	2625.3	5.229	
	0.50	50.0	81.33	340.49	2305.4	2645.9	3.240	
	0.75	75.0	91.78	384.39	2278.6	2663.0	2.217	
	0.95	95.0	98.20	411.43	2261.8	2673.2	1.777	
	gauge							
	0	0	100.00	419.04	2257.0	2676.0	1.673	1.0434
	0.10	10.0	102.66	430.2	2250.2	2680.2	1.533	
	0.20	20.0	105.10	440.8	2243.4	2684.2	1.414	
	0.30	30.0	107.39	450.4	2237.2	2687.6	1.312	
	0.40	40.0	109.55	459.7	2231.3	2691.0	1.225	
	0.50	50.0	111.61	468.3	2225.6	2693.9	1.149	1.0530
	0.60	60.0	113.56	476.4	2220.4	2696.8	1.088	
	0.70	70.0	115.40	484.1	2215.4	2699.5	1.024	
	0.80	80.0	117.14	491.6	2210.5	2702.1	0.971	
	0.90	90.0	118.80	498.9	2205.6	2704.5	0.923	
	1.00	100.0	120.42	505.6	2201.1	2706.7	0.881	1.0608
	1.10	110.0	121.96	512.2	2197.0	2709.2	0.841	
	1.20	120.0	123.46	518.7	2192.8	2711.5	0.806	
	1.30	130.0	124.90	524.6	2188.7	2713.3	0.773	
	1.40	140.0	126.28	530.5	2184.8	2715.3	0.743	
	1.50	150.0	127.62	536.1	2181.0	2717.1	0.714	1.0675
	1.60	160.0	128.89	541.6	2177.3	2718.9	0.689	
	1.70	170.0	130.13	547.1	2173.7	2720.8	0.665	
	1.80	180.0	131.37	552.3	2170.1	2722.4	0.643	
	1.90	190.0	132.54	557.3	2166.7	2724.0	0.622	
	2.00	200.0	133.69	562.2	2163.3	2725.5	0.603	1.0735
	2.20	220.0	135.88	571.7	2156.9	2728.6	0.568	
	2.40	240.0	138.01	580.7	2150.7	2731.4	0.536	
	2.60	260.0	140.00	589.2	2144.7	2733.9	0.509	
	2.80	280.0	141.92	597.4	2139.0	2736.4	0.483	
	3.00	300.0	143.75	605.3	2133.4	2738.7	0.461	1.0839
	3.20	320.0	145.46	612.9	2128.1	2741.0	0.440	
	3.40	340.0	147.20	620.0	2122.9	2742.9	0.422	
	3.60	360.0	148.84	627.1	2117.8	2744.9	0.405	
	3.80	380.0	150.44	634.0	2112.9	2746.9	0.389	

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GAUGE PRESSURE ↓

Pressure		Temperature °C	Specific Enthalpy			Specific Volume of Steam m ³ /kg	Specific Volume of Water dm ³ /kg
bar	kPa		Enthalpy of Water (hf) kJ/kg	Heat of Vaporization (hfg) kJ/kg	Steam (hg) kJ/kg		
4.00	400.0	151.96	640.7	2108.1	2748.8	0.374	1.0928
4.50	450.0	155.55	656.3	2096.7	2753.0	0.342	
5.00	500.0	158.92	670.9	2086.0	2756.9	0.315	1.1009
5.50	550.0	162.08	684.6	2075.7	2760.3	0.292	
6.00	600.0	165.04	697.5	2066.0	2763.5	0.272	1.1082
6.50	650.0	167.83	709.7	2056.8	2766.5	0.255	
7.00	700.0	170.50	721.4	2047.7	2769.1	0.240	1.1150
7.50	750.0	173.02	732.5	2039.2	2771.7	0.227	
8.00	800.0	175.43	743.1	2030.9	2774.0	0.215	1.1213
8.50	850.0	177.75	753.3	2022.9	2776.2	0.204	
9.00	900.0	179.97	763.0	2015.1	2778.1	0.194	1.1274
9.50	950.0	182.10	772.5	2007.5	2780.0	0.185	
10.00	1000.0	184.13	781.6	2000.1	2781.7	0.177	1.1331
10.50	1050.0	186.05	790.1	1993.0	2783.3	0.171	
11.00	1100.0	188.02	798.8	1986.0	2784.8	0.163	1.1386
11.50	1150.0	189.82	807.1	1979.1	2786.3	0.157	
12.00	1200.0	191.68	815.1	1972.5	2787.6	0.151	1.1438
12.50	1250.0	193.43	822.9	1965.4	2788.8	0.148	
13.00	1300.0	195.10	830.4	1959.6	2790.0	0.141	1.1489
13.50	1350.0	196.62	837.9	1953.2	2791.1	0.136	
14.00	1400.0	198.35	845.1	1947.1	2792.2	0.132	1.1539
14.50	1450.0	199.92	852.1	1941.0	2793.1	0.128	
15.00	1500.0	201.45	859.0	1935.0	2794.0	0.124	1.1586
15.50	1550.0	202.92	865.7	1928.8	2794.9	0.119	
16.00	1600.0	204.38	872.3	1923.4	2795.7	0.117	1.1633
17.00	1700.0	207.17	885.0	1912.1	2797.1	0.110	1.1678
18.00	1800.0	209.90	897.2	1901.3	2798.5	0.105	1.1723
19.00	1900.0	212.47	909.0	1890.5	2799.5	0.100	1.1766
20.00	2000.0	214.96	920.3	1880.2	2800.5	0.0994	1.1809
21.00	2100.0	217.35	931.3	1870.1	2801.4	0.0906	1.1850
22.00	2200.0	219.65	941.9	1860.1	2802.0	0.0868	1.1892
23.00	2300.0	221.85	952.2	1850.4	2802.6	0.0832	1.1932
24.00	2400.0	224.02	962.2	1840.9	2803.1	0.0797	1.1972
25.00	2500.0	226.12	972.1	1831.4	2803.5	0.0768	1.2011
26.00	2600.0	228.15	981.6	1822.2	2803.8	0.0740	
27.00	2700.0	230.14	990.7	1813.3	2804.0	0.0714	1.2088
28.00	2800.0	232.05	999.7	1804.4	2804.1	0.0689	
29.00	2900.0	233.93	1008.6	1795.6	2804.2	0.0666	1.2163
30.00	3000.0	235.78	1017.0	1787.0	2804.1	0.0645	

Pressure Temperature Specific Enthalpy