



PRESSURE / TEMPERATURE CHART

MATERIAL	CARBON STEEL						ALLOY STEEL						316 STAINLESS				MATERIAL
	A105 & A350-LF2 (Note2)						A182 - F11 Class 2 (Note 3)		A182 - F5		A182 - F9		A182 - F316		A182 - F316L		
CLASS	150	300	600	800	900	1500	800	1500	800	1500	800	1500	800	1500	800	1500	CLASS
Temperature																	Temperature
-20 to 100°F	285	740	1.480	1.973	2.220	3.705	2.000	3.750	2.000	3.750	2.000	3.750	1.920	3.600	1.600	3.000	-31 to 38°C
200 °F	260	680	1.360	1.810	2.035	3.395	2.000	3.750	1.963	3.680	2.000	3.750	1.653	3.095	1.363	2.555	93 °C
300 °F	230	655	1.310	1.747	1.965	3.270	1.925	3.610	1.867	3.495	1.942	3.640	1.493	2.795	1.217	2.280	149 °C
400 °F	200	635	1.265	1.688	1.900	3.170	1.848	3.465	1.785	3.345	1.880	3.530	1.368	2.570	1.120	2.100	204 °C
500 °F	170	605	1.205	1.608	1.810	3.015	1.773	3.325	1.723	3.230	1.773	3.325	1.275	2.390	1.048	1.970	260 °C
600 °F	140	570	1.135	1.515	1.705	2.840	1.613	3.025	1.613	3.025	1.613	3.025	1.203	2.255	992	1.860	316 °C
650 °F	125	550	1.100	1.467	1.650	2.745	1.568	2.940	1.568	2.940	1.568	2.940	1.178	2.210	973	1.825	343 °C
700 °F	110	530	1.060	1.413	1.590	2.665	1.515	2.840	1.515	2.840	1.515	2.840	1.160	2.170	960	1.800	371 °C
750 °F	95	505	1.015	1.352	1.520	2.535	1.418	2.660	1.418	2.660	1.418	2.660	1.138	2.135	942	1.765	399 °C
800 °F	80	410	825	1.098	1.235	2.055	1.355	2.540	1.355	2.540	1.355	2.540	1.125	2.110	920	1.730	427 °C
850 °F	65	320	640	850	955	1.595	1.298	2.435	1.298	2.435	1.298	2.435	1.115	2.090	902	1.690	454 °C
900 °F	50	230	460	613	690	1.150	1.200	2.245	995	1.870	1.200	2.245	1.107	2.075	-	-	482 °C
950 °F	35	135	275	365	410	685	850	1.595	733	1.370	1.005	1.885	1.032	1.930	-	-	510 °C
1000 °F	20	85	170	227	255	430	577	1.080	530	995	675	1.270	968	1.820	-	-	538 °C
1050 °F	-	-	-	-	-	-	383	720	383	720	458	855	960	1.800	-	-	566 °C
1100 °F	-	-	-	-	-	-	257	480	257	480	302	565	813	1.525	-	-	593 °C
1150 °F	-	-	-	-	-	-	173	325	165	310	200	375	632	1.185	-	-	621 °C
1200 °F	-	-	-	-	-	-	110	205	93	170	138	255	493	925	-	-	649 °C
1250 °F	-	-	-	-	-	-	-	-	-	-	-	-	392	735	-	-	677 °C
1300 °F	-	-	-	-	-	-	-	-	-	-	-	-	312	585	-	-	704 °C
1350 °F	-	-	-	-	-	-	-	-	-	-	-	-	257	480	-	-	732 °C
1400 °F	-	-	-	-	-	-	-	-	-	-	-	-	200	380	-	-	760 °C
1450 °F	-	-	-	-	-	-	-	-	-	-	-	-	155	290	-	-	788 °C
1500 °F	-	-	-	-	-	-	-	-	-	-	-	-	112	205	-	-	816 °C

NOTES:

- 1 - Data in Table are maximum fluid pressures at temperatures shown in side columns per ASME B16.34. User should be aware of specifications changes
- 2 - Permissible, but not recommended, for prolonged use above 800°F / 427°C
- 3 - Permissible, but not recommended, for prolonged use above 1100°F / 593°C
- 4 - For other materials, refer to ASME B16.34
- 5 - Pressures are shown in Psi - Divide by 14.5038 to convert to Bar