



PRESSURE TEMPERATURE CHART, PSI

MATERIAL CLASS	CARBON STEEL A105 & A350-LF2 (Note 2)						A182-F11 Class 2 (Note 3)		ALLOY STEEL A182-F5		A182-F9		316 STAINLESS A182-F316		A182-F316L		MATERIAL CLASS
	150	300	600	800	900	1500	800	1500	800	1500	800	1500	800	1500	800	1500	
TEMP -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	TEMP -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	1,782	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 - 2004. User should be aware of specification 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.