

ANSI FLANGE PRESSURE RATING EXAMPLES

CARBON STEEL FLANGE RATING CHART

Carbon steel flange pressure-temperature rating ASME

ANSI FLANGE ASTM A105, A350 Gr. LF2/LF6 Class 1

The flange rating table shows the maximum pressure for flanges of classes 150/300/400/600/900/1500/2500 at increasing temperatures (Celsius or Fahrenheit) – in PSI

ANSI/ASME B16.34	ANSI PRESSURE RATING						
Temperature (in F°)	150#	300#	400#	600#	900#	1500#	2500#
< 100	285	740	985	1480	2220	3705	6170
200	260	680	905	1360	2035	3395	5655
300	230	655	870	1310	1965	3270	5450
400	200	635	845	1265	1900	3170	5280
500	170	605	805	1205	1810	3015	5025
600	140	570	755	1135	1705	2840	4730
650	125	550	730	1100	1650	2745	4575
700	110	530	710	1060	1590	2655	4425
750	95	505	675	1015	1520	2535	4230
800	80	410	550	825	1235	2055	3430
850	65	320	425	640	955	1595	2655
900	50	230	305	460	690	1150	1915
950	35	135	185	275	410	685	1145
1000	20	85	115	170	255	430	715
Hydrostatic Test Pressure (in Psig)	450	1125	1500	2225	3350	5575	9275