

Pressure- Temperature Ratings for Flanges, A105 ⁽¹⁾ and A350-LF2 ⁽¹⁾

ASME B16.5-2003:

Class Temperature °F	Working Pressures by Classes, psig						
	150	300	400	600	900	1500	2500
-20 to 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

ASME B16.47-1996:

Class Temperature °F	Working Pressures by Classes, psig					
	75	150	300	400	600	900
-20 to 100	140	285	740	990	1480	2220
200	130	260	675	900	1350	2025
300	115	230	655	875	1315	1970
400	100	200	635	845	1270	1900
500	85	170	600	800	1200	1795
600	70	140	550	730	1095	1640
650	60	125	535	715	1075	1610
700	...	110	535	710	1065	1600
750	...	95	505	670	1010	1510
800	...	80	410	550	825	1235
850	...	65	270	355	535	805
900	...	50	170	230	345	515
950	...	35	105	140	205	310
1000	...	20	50	70	105	155

Notes:

(1) ASME B16.5 and B16.47 provide the following note: Upon prolonged exposure to temperatures above 800 °F, the carbide phase of steel may be converted to graphite. Permissible, but not recommended for prolonged use above 800 °F