

Pressure/Temperature Charts

ASTM A351 Grade CF3M(a)/A182-F316L & ASTM A351 Grade CF8M(b) /A182-F316

(a) Not to be used over 800°F

(b) At temperatures over 1000°F, use only when the carbon content is 0.04% or higher. This requirement must be specified by customer when applicable.

Standard Class

Working Pressures by Classes, psig									
Temperature, °F(2)	150	200	300	400	600	900	1500	2500	4500
-20 to 100	275	400	720	960	1440	2160	3600	6000	10,800
200	235	360	620	825	1240	1860	3095	5160	9290
300	215	330	560	745	1120	1680	2795	4660	8390
400	195	300	515	685	1025	1540	2570	4280	7705
500	170	270	480	635	955	1435	2390	3980	7165
600	140	240	450	600	900	1355	2255	3760	6770
650	125	230	445	590	890	1305	2170	3700	6660
700	110	215	430	580	870	1305	2170	3620	6515
750	95	205	425	570	855	1280	2135	3560	6410
800	80	190	420	565	845	1265	2110	3520	6335
850	65	180	420	555	835	1255	2090	3480	6265
900	50	170	415	555	830	1245	2075	3460	6230
950	35	150	385	515	775	1160	1930	3220	5795
1000	20	130	350	465	700	1050	1750	2915	5245
1050	20(1)	125	345	450	685	1030	1720	2865	5155
1100	20(1)	115	305	405	610	915	1525	2545	4575
1150	20(1)	90	235	315	475	710	1185	1970	3550
1200	20(1)	75	185	245	370	555	925	1545	2885
1250	20(1)	60	145	195	295	440	735	1230	2210
1300	20(1)	50	115	155	235	350	585	970	1750
1350	20(1)	45	95	130	190	290	480	800	1440
1400	20(1)	35	75	100	150	225	380	630	1130
1450	20(1)	30	60	80	115	175	290	485	875
1500	20(1)	25	40	55	85	125	205	345	620

NOTE:

(1) For welding end valves only. Flanged end ratings terminate at 1000°F.

(2) For Cryogenic Valves, -20°F Rating Extends to -423°F.

NOTE: Special Class Ratings apply to Threaded and Weld End Valves only and require upgrading per paragraph 8 of ASME B16.34