

Pressure-Temperature Rating  
ASME B16.34-2013

CLASS 150

TEMPERATURE		Working pressure (psig)						
°F	°C	WCB(1)	WC9(3)	LCB(2)	CF8(4)	CF8M(4)	CN7M(5)	6A
-20 to 100	-29 to 38	285	290	265	275	275	230	290
200	93	260	260	255	230	235	200	260
300	149	230	230	230	205	215	180	230
400	204	200	200	200	190	195	160	200
500	260	170	170	170	170	170	150	170
600	316	140	140	140	140	140	140	140
650	343	125	125	125	125	125	—	125
700	371	110	110	110	110	110	—	110
750	399	95	95	95	95	95	—	95
800	427	80	80	80	80	80	—	—
850	454	65	65	65	65	65	—	—
900	482	50	50	50	50	50	—	—
950	510	35	35	35	35	35	—	—
1000	538	20	20	20	20	20	—	—
1050	566	—	20*	—	20*	20	—	—
1100	593	—	20*	—	20*	20*	—	—
1150	621	—	20*	—	20*	20*	—	—
1200	649	—	15*	—	20*	20*	—	—

CLASS 300

TEMPERATURE		Working pressure (psig)						
°F	°C	WCB(1)	WC9(3)	LCB(2)	CF8(4)	CF8M(4)	CN7M(5)	6A
-20 to 100	-29 to 38	740	750	695	720	720	600	750
200	93	680	750	660	600	620	520	745
300	149	655	730	640	540	560	465	665
400	204	635	705	615	495	515	420	615
500	260	605	665	585	465	480	390	580
600	316	570	605	550	440	450	360	555
650	343	550	590	535	430	440	—	545
700	371	530	570	510	420	435	—	540
750	399	505	530	475	415	425	—	530
800	427	410	510	390	405	420	—	—
850	454	320	485	300	395	420	—	—
900	482	230	450	200	390	415	—	—
950	510	135	385	135	380	385	—	—
1000	538	85	265	85	355	365	—	—
1050	566	—	175	—	325	360	—	—
1100	593	—	110	—	255	305	—	—
1150	621	—	70	—	205	235	—	—
1200	649	—	40	—	165	185	—	—

CLASS 600

TEMPERATURE		Working pressure (psig)						
°F	°C	WCB(1)	WC9(3)	LCB(2)	CF8(4)	CF8M(4)	CN7M(5)	6A
-20 to 100	-29 to 38	1480	1500	1395	1440	1440	1200	1500
200	93	1360	1500	1320	1200	1240	1035	1490
300	149	1310	1455	1275	1075	1120	930	1335
400	204	1265	1410	1230	995	1025	845	1230
500	260	1205	1330	1175	930	955	780	1160
600	316	1135	1210	1105	885	900	720	1115
650	343	1100	1175	1065	865	885	—	1095
700	371	1060	1135	1025	845	870	—	1085
750	399	1015	1065	955	825	855	—	1065
800	427	825	1015	780	810	845	—	—
850	454	640	975	595	790	835	—	—
900	482	460	900	405	780	830	—	—
950	510	275	755	275	765	775	—	—
1000	538	170	535	170	710	725	—	—
1050	566	—	350	—	650	720	—	—
1100	593	—	220	—	515	610	—	—
1150	621	—	135	—	410	475	—	—
1200	649	—	80	—	330	370	—	—

CLASS 900

TEMPERATURE		Working pressure (psig)						
°F	°C	WCB(1)	WC9(3)	LCB(2)	CF8(4)	CF8M(4)	CN7M(5)	6A
-20 to 100	-29 to 38	2220	2250	2090	2160	2160	1800	2250
200	93	2035	2250	1980	1800	1860	1555	2230
300	149	1965	2185	1915	1615	1680	1395	2000
400	204	1900	2115	1845	1490	1540	1265	1845
500	260	1810	1995	1760	1395	1435	1165	1740
600	316	1705	1815	1655	1325	1355	1080	1670
650	343	1650	1765	1600	1295	1325	—	1640
700	371	1590	1705	1535	1265	1305	—	1625
750	399	1520	1595	1430	1240	1280	—	1595
800	427	1235	1525	1175	1215	1265	—	—
850	454	955	1460	895	1190	1255	—	—
900	482	690	1350	605	1165	1245	—	—
950	510	410	1160	410	1145	1160	—	—
1000	538	255	800	255	1065	1090	—	—
1050	566	—	525	—	975	1080	—	—
1100	593	—	330	—	770	915	—	—
1150	621	—	205	—	615	710	—	—
1200	649	—	125	—	495	555	—	—

CLASS 1500

TEMPERATURE		Working pressure (psig)						
°F	°C	WCB(1)	WC9(3)	LCB(2)	CF8(4)	CF8M(4)	CN7M(5)	6A
-20 to 100	-29 to 38	3705	3750	3480	3600	3600	3000	3750
200	93	3395	3750	3300	3000	3095	2590	3720
300	149	3270	3640	3190	2690	2795	2330	3335
400	204	3170	3530	3075	2485	2570	2110	3070
500	260	3015	3325	2930	2330	2390	1945	2905
600	316	2840	3025	2755	2210	2255	1800	2785
650	343	2745	2940	2665	2160	2210	—	2735
700	371	2665	2840	2560	2110	2170	—	2710
750	399	2535	2660	2385	2065	2135	—	2660
800	427	2055	2540	1955	2030	2110	—	—
850	454	1595	2435	1490	1980	2090	—	—
900	482	1150	2245	1010	1945	2075	—	—
950	510	685	1930	685	1910	1930	—	—
1000	538	430	1335	430	1770	1820	—	—
1050	566	—	875	—	1630	1800	—	—
1100	593	—	550	—	1285	1525	—	—
1150	621	—	345	—	1030	1185	—	—
1200	649	—	205	—	825	925	—	—

CLASS 2500

TEMPERATURE		Working pressure (psig)						
°F	°C	WCB(1)	WC9(3)	LCB(2)	CF8(4)	CF8M(4)	CN7M(5)	6A
-20 to 100	-29 to 38	6170	6250	5805	6000	6000	5000	6250
200	93	5655	6250	5505	5000	5160	4320	6200
300	149	5450	6070	5315	4480	4660	3880	5560
400	204	5280	5880	5125	4140	4280	3520	5120
500	260	5025	5540	4885	3880	3980	3240	4840
600	316	4730	5040	4595	3680	3760	3000	4640
650	343	4575	4905	4440	3600	3680	—	4560
700	371	4425	4730	4270	3520	3620	—	4520
750	399	4230	4430	3970	3440	3560	—	4430
800	427	3430	4230	3255	3380	3520	—	—
850	454	2655	4060	2485	3300	3480	—	—
900	482	1915	3745	1685	3240	3460	—	—
950	510	1145	3220	1145	3180	3220	—	—
1000	538	715	2230	715	2950	3030	—	—
1050	566	—	1455	—	2715	3000	—	—
1100	593	—	915	—	2145	2545	—	—
1150	621	—	570	—	1715	1970	—	—
1200	649	—	345	—	1370	1545	—	—

(1) 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.  
 (2) Not to be used over 650°F. (3) Not to be used over 1100°F. (4) At temperatures over 1,000°F, use only when the carbon content is 0.04% or higher. (5) Use solution annealed material only.

\* Flanged-end valve ratings terminate at 1,000°F.

NOTE : 1. Packing gasket or bolting may limit temperature. Please advise service temperature if above 1000°F.

2. Rating from ASME B16.34 standard class valves.

3. Special class weld end valves to B16.34 are available on special order.