

PRESSURE / TEMPERATURE RATINGS FOR SKILT® VALVES (ANSI B16.34)



MATERIAL REFERENCE GUIDE

TABLE 1. VALVE BODY MATERIALS

CATEGORY	ASME			
	SPECIFICATION	GRADE	MATERIAL GROUP	NOMINAL DESIGNATION
CARBON STEEL	SA-216	WCC	1.2	S-Mn-Si
	SA-352	LCC	1.2	S-Mn-Si
	SA-350	LF2	1.1	C-Mn-Si
ALLOYS STEELS	SA-217	WC6	1.9	1-1/4Cr-1/2Mo
		WC9	1.10	2-1/4Cr-1/2Mo
		C12A	1.15	9Cr-1 Mo-V
STAINLESS STEEL	SA-351	CF8M	2.2	16Cr-12Ni-2Mo
		CF8	2.1	18Cr-8Ni
		CF8C	2.11	18Cr-10Ni-Cb
		CF3M	2.2	16Cr-12Ni-3Mo
		CG8M	2.2	19Cr-10Ni-3Mo
		CK3MCuN	2.8	20Cr-18Ni-6Mo
	SA-995	CD3MN (Grade 4A)	2.8	22Cr-5Ni-3Mo-N
		CD3MWCuN (Grade 6A)	2.8	25-Cr-7Ni-3.5Mo-Cb

1. WCC is a standard substitute for WCB material.
2. LCC is a standard substitute for LCB material.
3. Listed as A351-CD3MN in B16.34-2013

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PRESSURE / TEMPERATURE RATINGS FOR VALVES



TABLE 2. FOR ASME STANDARD 150# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6 (1)	WC9 (1)	C12A (1)	CF8 or 304 (1,2)	CF8M or AISI 316 (1,2)	CF3M	316L	CG8M	317 (1,2)	CF8C (1,2)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	290	285	290	290	290	290	275	275	275	275	275	275	275	275	290
200	260	260	260	260	260	260	230	235	235	195	235	235	255	255	260
300	230	230	230	230	230	230	205	215	215	175	215	215	230	230	230
400	200	200	200	200	200	200	190	195	195	160	195	195	200	200	200
500	170	170	170	170	170	170	170	170	170	150	170	170	170	170	170
600	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
650	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
700		110	110	110	110	110	110	110	110	110	110	110	110	110	110
750		95	95	95	95	95	95	95	95	110	95	95	95	95	95
800		80	80	80	80	80	80	80	80	80	80	80	80	80	
850				65	65	65	65	65	65	65	65	65	65	65	
900				50	50	50	50	50			50	50	50	50	
950				35	35	35	35	35			35	35	35	35	
1000				20	20	20	20	20			20	20	20	20	
1050				20	20	20	20	20				20	20		
1100				20	20	20	20	20				20	20		
1150						20	20	20				20	20		
1200						20	20	20				20	20		
1250							20	20				20	20		
1300							20	20				20	20		
1350							20	20				20	20		
1400							20	20				20	15		
1450							20	20				20	10		
1500							15	15				15	10		

1. Flanged end ratings terminate at 1000°F
2. All temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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PRESSURE / TEMPERATURE RATINGS FOR VALVES



TABLE 3. FOR ASME STANDARD 300# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	750	740	750	750	750	750	720	720	720	600	720	720	720	720	750
200	750	680	750	750	750	750	600	620	620	510	620	620	660	660	745
300	730	655	730	720	730	730	540	560	560	455	560	560	615	615	665
400	705	635	705	695	705	705	495	515	515	420	515	515	575	575	615
500	665	605	665	665	665	665	465	480	480	395	480	480	540	540	580
600	605	570	605	605	605	605	440	450	450	370	450	450	515	515	555
650	590	550	590	590	590	590	430	440	440	365	440	440	505	505	545
700		530	555	570	570	570	420	435	435	360	435	435	495	495	540
750		505	505	530	530	530	415	425	425	355	425	425	490	490	530
800		410	410	510	510	510	405	420	420	345	420	420	485	485	
850				485	485	485	395	420	420	340	420	420	485	485	
900				450	450	450	390	415			415	415	450	450	
950				320	385	385	380	385			385	385	385	385	
1000				215	265	365	355	365			365	365	365	365	
1050				145	175	360	325	360				360	360		
1100				95	110	300	255	305				305	310		
1150						225	205	235				235	210		
1200						145	165	185				185	150		
1250							135	145				145	115		
1300							115	115				115	75		
1350							95	95				95	50		
1400							75	75				75	40		
1450							60	60				60	30		
1500							45	45				40	25		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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TABLE 4. FOR ASME STANDARD 600# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	1500	1480	1500	1500	1500	1500	1440	1440	1440	1200	1440	1440	1440	1440	1500
200	1500	1360	1500	1500	1500	1500	1200	1240	1240	1020	1240	1240	1325	1325	1490
300	1455	1310	1455	1455	1455	1455	1075	1120	1120	910	1120	1120	1235	1235	1335
400	1405	1265	1405	1385	1410	1410	995	1025	1025	840	1025	1025	1150	1150	1230
500	1330	1205	1330	1330	1330	1330	930	955	955	785	955	955	1085	1085	1160
600	1210	1135	1210	1210	1210	1210	885	900	900	745	900	900	1030	1030	1115
650	1175	1100	1175	1175	1175	1175	865	885	885	730	885	885	1015	1015	1095
700		1060	1110	1135	1135	1135	845	870	870	720	870	870	995	995	1085
750		1015	1015	1065	1065	1065	825	855	855	705	855	855	985	985	1085
800		825	825	1015	1015	1015	810	845	845	690	845	845	975	975	
850				975	975	975	790	835	835	675	835	835	970	970	
900				900	900	900	780	830			830	830	900	900	
950				640	755	775	765	775			775	775	775	775	
1000				430	535	725	710	725			725	725	725	725	
1050				290	350	720	650	720				720	720		
1100				190	220	605	515	610				610	625		
1150						445	410	475				475	420		
1200						290	330	370				370	300		
1250							265	295				295	225		
1300							225	235				235	150		
1350								185	190			190	105		
1400								150	150			150	80		
1450								115	115			115	60		
1500								85	85			85	55		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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TABLE 5. FOR ASME STANDARD 900# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	2250	2220	2250	2250	2250	2250	2160	2160	2160	1800	2160	2160	2160	2160	2250
200	2250	2035	2250	2250	2250	2250	1800	1860	1860	1535	1860	1860	1985	1985	2230
300	2185	1965	2185	2185	2185	2185	1615	1680	1680	1370	1680	1680	1850	1850	2000
400	2110	1900	2110	2115	2115	2115	1490	1540	1540	1260	1540	1540	1730	1730	1845
500	1995	1810	1995	1995	1995	1995	1395	1435	1435	1180	1435	1435	1625	1625	1740
600	1815	1705	1815	1815	1815	1815	1325	1355	1355	1115	1355	1355	1550	1550	1670
650	1765	1650	1765	1765	1765	1765	1295	1325	1325	1095	1325	1325	1520	1520	1640
700		1590	1665	1705	1705	1705	1265	1305	1305	1080	1305	1305	1490	1490	1625
750		1520	1520	1595	1595	1595	1240	1280	1280	1060	1280	1280	1475	1475	1595
800		1235	1235	1525	1525	1525	1215	1265	1265	1035	1265	1265	1460	1460	
850				1460	1460	1460	1190	1255	1255	1015	1255	1255	1455	1455	
900				1350	1350	1350	1165	1245			1245	1245	1350	1350	
950				1160	1160	1160	1145	1160			1160	1160	1160	1160	
1000				800	800	1090	1065	1090			1090	1090	1090	1090	
1050				525	525	1080	975	1080				1080	1080		
1100				330	330	905	770	915				915	935		
1150						670	615	710				710	625		
1200						430	495	555				555	455		
1250							400	440				440	340		
1300							340	350				350	225		
1350							280	290				290	155		
1400							225	225				225	125		
1450							175	175				175	95		
1500							125	125				125	80		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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PRESSURE / TEMPERATURE RATINGS FOR VALVES



TABLE 6. FOR ASME STANDARD 1500# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	3750	3705	3750	3750	3750	3750	3600	3600	3600	3000	3600	3600	3600	3600	3750
200	3750	3395	3750	3750	3750	3750	3000	3095	3095	2555	3095	3095	3310	3310	3720
300	3640	3270	3640	3610	3640	3640	2690	2795	2795	2280	2795	2795	3085	3085	3335
400	3520	3170	3520	3465	3530	3530	2485	2570	2570	2100	2570	2570	2880	2880	3070
500	3325	3015	3325	3325	3325	3325	2330	2390	2390	1970	2390	2390	2710	2710	2905
600	3025	2840	3025	3025	3025	3025	2210	2255	2255	1860	2255	2255	2580	2580	2785
650	2940	2745	2940	2940	2940	2940	2160	2210	2210	1825	2210	2210	2530	2530	2735
700		2665	2775	2840	2840	2840	2110	2170	2170	1800	2170	2170	2485	2485	2710
750		2535	2535	2660	2660	2660	2065	2135	2135	1765	2135	2135	2460	2460	2660
800		2055	2055	2540	2540	2540	2030	2110	2110	1730	2110	2110	2435	2435	
850				2435	2435	2435	1980	2090	2090	1690	2090	2090	2425	2425	
900				2245	2245	2245	1945	2075			2075	2075	2245	2245	
950				1595	1930	1930	1910	1930			1930	1930	1930	1930	
1000				1080	1335	1820	1770	1820			1820	1820	1820	1820	
1050				720	875	1800	1630	1800				1800	1800		
1100				480	550	1510	1285	1525				1525	1560		
1150						1115	1030	1185				1185	1045		
1200						720	825	925				925	755		
1250							670	735				735	565		
1300							565	585				585	375		
1350							465	480				480	255		
1400							380	380				380	205		
1450							290	290				290	155		
1500							205	205				205	135		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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PRESSURE / TEMPERATURE RATINGS FOR VALVES



TABLE 7. FOR ASME STANDARD 2500# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	6250	6170	6250	6250	6250	6250	6000	6000	6000	5000	6000	6000	6000	6000	6250
200	6250	5655	6250	6250	6250	6250	5000	5160	5160	4260	5160	5160	5520	5520	6200
300	6070	5450	6070	6015	6070	6070	4480	4660	4660	3800	4660	4660	5140	5140	5560
400	5865	5280	5865	5775	5880	5880	4140	4280	4280	3500	4280	4280	4800	4800	5120
500	5540	5025	5540	5540	5540	5540	3880	3980	3980	3280	3980	3980	4520	4520	4840
600	5040	4730	5040	5040	5040	5040	3680	3760	3760	3100	3760	3760	4300	4300	4640
650	4905	4575	4905	4905	4905	4905	3600	3680	3680	3040	3680	3680	4220	4220	4560
700		4425	4630	4730	4730	4730	3520	3620	3620	3000	3620	3620	4140	4140	4520
750		4230	4230	4430	4430	4430	3440	3560	3560	2940	3560	3560	4100	4100	4430
800		3430	3430	4230	4230	4230	3380	3520	3520	2880	3520	3520	4060	4060	
850				4060	4060	4060	3300	3480	3480	2820	3480	3480	4040	4040	
900				3745	3745	3745	3240	3460			3460	3460	3745	3745	
950				2655	3220	3220	3180	3220			3220	3220	3220	3220	
1000				1800	2230	3030	2950	3030			3030	3030	3030	3030	
1050				1200	1455	3000	2715	3000				3000	3000		
1100				800	915	2515	2145	2545				2545	2600		
1150						1855	1715	1970				1970	1745		
1200						1200	1370	1545				1545	1255		
1250								1115	1230			1230	945		
1300								945	970			970	630		
1350								770	800			800	430		
1400								630	630			630	345		
1450								485	485			485	255		
1500								345	345			345	230		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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PRESSURE / TEMPERATURE RATINGS FOR VALVES



TABLE 8. FOR ASME STANDARD 4500# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCu N
-29 TO 100	11250	11110	11250	11250	11250	11250	10800	10800	10800	9000	10800	10800	10800	10800	11250
200	11250	10185	11250	11250	11250	11250	9000	9290	9290	7670	9290	9290	9935	9935	11160
300	10925	9815	10925	10830	10925	10925	8065	8390	8390	6840	8390	8390	9250	9250	10010
400	10555	9505	10555	10400	10585	10585	7450	7705	7705	6300	7705	7705	8640	8640	9215
500	9965	9040	9965	9965	9965	9965	6985	7165	7165	5905	7165	7165	8135	8135	8710
600	9070	8515	9070	9070	9070	9070	6625	6770	6770	5580	6770	6770	7740	7740	8350
650	8825	8240	8825	8825	8825	8825	6480	6625	6625	5470	6625	6625	7595	7595	8210
700		7960	8330	8515	8515	8515	6335	6515	6515	5400	6515	6515	7450	7450	8135
750		7610	7610	7970	7970	7970	6190	6410	6410	5290	6410	6410	7380	7380	7970
800		6170	6170	7610	7610	7610	6085	6335	6335	5185	6335	6335	7310	7310	
850				7305	7305	7305	5940	6265	6265	5075	6265	6265	7270	7270	
900				6740	6740	6740	5830	6230			6230	6230	6740	6740	
950				4785	5795	5795	5725	5795			5795	5795	5795	5795	
1000				3240	4010	5450	5315	5450			5450	5450	5450	5450	
1050				2160	2625	5400	4885	5400				5400	5400		
1100				1440	1645	4525	3855	4575				4575	4680		
1150						3345	3085	3550				3550	3135		
1200						2160	2470	2775				2775	2265		
1250							2005	2210				2210	1695		
1300							1695	1750				1750	1130		
1350							1390	1440				1440	770		
1400							1130	1130				1130	615		
1450							875	875				875	465		
1500							620	620				620	410		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 9. FOR ASME SPECIAL 150# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A(1)	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	290	290	290	290	290	290	290	290	290	255	290	290	290	290	290
200	290	290	290	290	290	290	255	265	265	220	265	265	275	285	290
300	290	285	290	290	285	290	230	240	240	195	240	240	255	265	285
400	290	280	290	290	280	290	215	220	220	180	220	220	240	245	265
500	290	280	290	290	280	290	200	205	205	170	205	205	230	230	250
600	290	280	290	290	275	290	190	195	195	160	195	195	220	220	240
650	290	275	290	290	275	290	185	190	190	155	190	190	215	215	235
700		265	280	280	270	280	180	185	185	155	185	185	215	215	230
750		245	280	280	270	280	175	185	185	150	185	185	210	210	230
800		195	255	275	270	275	175	180	180	150	180	180	210	210	
850				260	260	260	170	180	180	145	180	180	205	205	
900				255	230	230	165	180			180	180	205	205	
950				155	180	180	165	175			175	175	180	180	
1000				105	130	160	160	160			160	160	160	180	
1050				70	85	160	155	160				160	160		
1100				45	55	145	125	145				145	150		
1150						105	100	115				115	100		
1200						70	80	90				90	70		
1250							65	70				70	55		
1300							55	55				55	35		
1350							45	45				45	25		
1400							35	35				35	20		
1450							30	30				30	15		
1500							20	20				20	15		

1. At temperatures over 1000°F, use material only when carbon content is higher than 004% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 10. FOR ASME SPECIAL 300# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	750	750	750	750	750	750	750	750	750	670	750	750	750	750	750
200	750	750	750	750	750	750	670	690	690	570	690	690	715	740	750
300	750	740	750	750	740	750	600	625	625	510	625	625	660	690	745
400	750	735	750	750	730	750	555	575	575	470	575	575	620	645	685
500	750	735	750	750	725	750	520	535	535	440	535	535	600	605	650
600	750	735	750	750	720	750	495	505	505	415	505	505	575	575	620
650	750	715	750	750	715	750	480	495	495	405	495	495	565	565	610
700		690	715	735	705	750	470	485	485	400	485	485	555	555	605
750		635	635	730	705	735	460	475	475	395	475	475	550	550	600
800		515	515	720	705	720	455	470	470	385	470	470	545	545	
850				680	680	680	440	465	465	380	465	465	540	540	
900				585	600	600	435	465			465	465	540	540	
950				400	470	470	425	460			460	460	470	470	
1000				270	335	420	415	420			420	420	420	420	
1050				180	220	420	405	420				420	420		
1100				120	135	375	320	380				380	390		
1150						280	255	295				295	260		
1200						180	205	230				230	190		
1250							165	185				185	140		
1300							140	145				145	95		
1350								115	120			120	65		
1400								95	95			95	50		
1450								75	75			75	40		
1500								50	50			50	35		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 11. FOR ASME SPECIAL 600# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	1500	1500	1500	1500	1500	1500	1500	1500	1500	1340	1500	1500	1500	1500	1500
200	1500	1500	1500	1500	1500	1500	1340	1380	1380	1140	1380	1380	1435	1480	1500
300	1500	1480	1500	1500	1480	1500	1200	1250	1250	1020	1250	1250	1320	1375	1490
400	1500	1465	1500	1500	1455	1500	1110	1145	1145	940	1145	1145	1245	1285	1370
500	1500	1465	1500	1500	1450	1500	1040	1065	1065	880	1065	1065	1200	1210	1295
600	1500	1465	1500	1500	1440	1500	985	1005	1005	830	1005	1005	1150	1150	1245
650	1500	1430	1500	1500	1430	1500	965	985	985	815	985	985	1130	1130	1220
700		1380	1425	1465	1415	1465	945	970	970	805	970	970	1110	1110	1210
750		1270	1270	1460	1415	1460	920	955	955	790	955	955	1100	1100	1200
800		1030	1030	1440	1415	1440	905	945	945	770	945	945	1090	1090	
850				1355	1355	1355	885	930	930	775	930	930	1080	1080	
900				1175	1200	1200	870	925			925	925	1080	1080	
950				795	945	945	850	915			915	915	945	945	
1000				540	670	840	830	840			840	840	840	840	
1050				360	435	840	815	840				840	840		
1100				240	275	755	645	765				765	780		
1150						555	515	590				590	525		
1200						360	410	465				465	375		
1250							335	370				370	285		
1300							285	290				290	190		
1350							230	240				240	130		
1400							190	190				190	105		
1450							145	145				145	75		
1500							105	105				105	70		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 12. FOR ASME SPECIAL 900# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	2250	2220	2220	2250	2250	2250	2250	2250	2250	2010	2250	2250	2250	2250	2250
200	2250	2250	2250	2250	2255	2250	2010	2075	2075	1710	2075	2075	2150	2220	2250
300	2500	2220	2250	2250	2220	2250	1800	1870	1870	1525	1870	1870	1975	2065	2235
400	2250	2200	2250	2250	2185	2250	1665	1720	1720	1405	1720	1720	1865	1930	2055
500	2250	2200	2250	2250	2175	2250	1560	1600	1600	1320	1600	1600	1800	1815	1945
600	2250	2200	2250	2250	2165	2250	1480	1510	1510	1245	1510	1510	1730	1730	1865
650	2250	2145	2250	2250	2145	2250	1445	1480	1480	1220	1480	1480	1695	1695	1830
700		2075	2140	2200	2120	2200	1415	1455	1455	1205	1455	1455	1665	1665	1815
750		1905	1905	2185	2120	2185	1380	1430	1430	1180	1430	1430	1645	1645	1800
800		1545	1545	2160	2120	2160	1360	1415	1415	1155	1415	1415	1630	1630	
850				2030	2030	2030	1325	1400	1400	1135	1400	1400	1625	1625	
900				1760	1800	1800	1300	1390			1390	1390	1625	1625	
950				1195	1415	1415	1280	1375			1375	1375	1415	1415	
1000				810	1005	1260	1245	1260			1260	1260	1260	1260	
1050				540	655	1260	1220	1145				1260	1260		
1100				360	410	1130	965	885				1145	1170		
1150						835	770	695				885	785		
1200						540	615	555				695	565		
1250							500	435				555	425		
1300							425	360				435	285		
1350							345	285				360	195		
1400							285	285				285	155		
1450							220	220				220	115		
1500							155	155				155	105		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 13. FOR ASME SPECIAL 1500# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750
200	3750	3750	3750	3750	3750	3750	3350	3455	3455	2855	3455	3455	3585	3695	3750
300	3750	3700	3750	3750	3695	3750	3000	3120	3120	2545	3120	3120	3295	3440	3725
400	3750	3665	3750	3750	3640	3750	2770	2865	2865	2345	2865	2865	3105	3215	3430
500	3750	3665	3750	3750	3620	3750	2600	2665	2665	2195	2665	2665	3000	3025	3240
600	3750	3665	3750	3750	3605	3750	2465	2520	2520	2075	2520	2520	2880	2880	3105
650	3750	3575	3750	3750	3580	3750	2410	2465	2465	2035	2465	2465	2825	2825	3055
700		3455	3565	3665	3535	3665	2355	2425	2425	2010	2425	2425	2770	2770	3025
750		3170	3170	3645	3535	3645	2305	2385	2385	1970	2385	2385	2745	2745	3000
800		2570	2570	3600	3535	3600	2265	2355	2355	1930	2355	2355	2720	2720	
850				3385	3385	3385	2210	2330	2330	1890	2330	2330	2705	2705	
900				2935	3000	3000	2170	2315			2315	2315	2705	2705	
950				1995	2360	2360	2130	2290			2290	2290	2360	2360	
1000				1350	1670	2105	2075	2105			2105	2105	2150	2105	
1050				900	1095	2105	2035	2105				2105	2150		
1100				600	685	1885	1605	1905				1905	1950		
1150						1395	1285	1480				1480	1305		
1200						900	1030	1155				1155	945		
1250							835	920				920	705		
1300							705	730				730	470		
1350							580	600				600	320		
1400							470	470				470	255		
1450							365	365				365	195		
1500							260	260				260	170		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 14. FOR ASME SPECIAL 2500# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	6250	6250	6250	6250	6250	6250	6250	6250	6250	5580	6250	6250	6250	6205	6250
200	6250	6250	6250	6250	6250	6250	5580	5760	5760	4755	5760	5760	5975	6160	6205
300	6250	6170	6170	6250	6160	6250	5000	5200	5200	4240	5200	5200	5490	5735	6205
400	6250	6105	6105	6250	6065	6250	4620	4775	4775	3905	4775	4775	5180	5355	5715
500	6250	6105	6105	6250	6035	6250	4330	4440	4440	3660	4440	4440	5000	5045	5400
600	6250	6105	6105	6250	6010	6250	4105	4195	4195	3460	4195	4195	4800	4800	5180
650	6250	5960	5960	6250	5965	6250	4020	4105	4105	3395	4105	4105	4710	4710	5090
700		5760	5760	6110	5895	6110	3930	4040	4040	3350	4040	4040	4620	4620	5045
750		5285	5285	6070	5895	6070	3840	3975	3975	3280	3975	3975	4575	4575	5000
800		4285	4285	6000	5895	6000	3770	3930	3930	3215	3930	3930	4530	4530	
850				5645	5645	5645	3685	3885	3885	3145	3885	3885	4510	4510	
900				4895	5000	5000	3615	3860			3860	3860	4510	4510	
950				3320	3930	3930	3550	3815			3815	3815	3930	3930	
1000				2250	2745	3505	3460	3505			3505	3505	3505	3505	
1050				1500	1820	3505	3395	3505				3505	3505		
1100				1000	1145	3145	2680	3180				3180	3250		
1150						2320	2145	2465				2465	2180		
1200						1500	1715	1930				1930	1570		
1250							1395	1535				1535	1180		
1300							1180	1215				1215	785		
1350							965	1000				1000	535		
1400							785	785				785	430		
1450							610	605				605	320		
1500							430	430				430	285		

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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SPECIAL PRESSURE / TEMPERATURE RATINGS FOR THREADED OR WELDING END VALVES



TABLE 15. FOR ASME STANDARD 4500# VALVES

Temperature (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A	CF8 or 304 (1)	CF8M or AISI 316 (1)	CF3M	316L	CG8M	317 (1)	CF8C (1)	347	CK3MCuN CD3MN CD3MWCuN
-29 TO 100	11250	11250	11250	11250	11250	11250	11250	11250	11250	10045	11250	11250	11250	11250	11250
200	11250	11250	11250	11250	11250	11250	10045	10365	10365	8560	10365	10365	10750	11090	11250
300	11250	11105	11250	11250	11090	11250	9000	9360	9360	7635	9360	9360	9885	10325	11170
400	11250	10995	11250	11250	10915	11250	8315	8600	8600	7030	8600	8600	9320	9645	10285
500	11250	10995	11250	11250	10865	11250	7795	7995	7995	6590	7995	7995	9000	9080	9725
600	11250	10995	11250	11250	10815	11250	7395	7555	7555	6230	7555	7555	8640	8640	9320
650	11250	10730	11250	11250	10735	11250	7230	7395	7395	6105	7395	7395	8480	8480	9160
700		10365	10690	10995	10605	10995	7070	7270	7270	6025	7270	7270	8315	8315	9080
750		9515	9515	10930	10605	10930	6910	7150	7150	5905	7150	7150	8235	8235	9000
800		7715	7715	10800	10605	10800	6790	7070	7070	5785	7070	7070	8155	8155	
850				10160	10160	10160	6630	6990	6990	5665	6990	6990	8115	8115	
900				8805	9000	9000	6510	6950			6950	6950	8115	8115	
950				5980	7070	7070	6390	6870			6870	6870	7070	7070	
1000				4050	5015	6310	6230	6310			6310	6310	6310	6310	
1050				2700	3280	6310	6105	6310				6310	6310		
1100				1800	2055	5655	4820	5720				5720	5850		
1150						4180	3885	4435				4435	3920		
1200						2700	3085	3470				3470	2830		
1250							2505	2765				2765	2120		
1300							2120	2185				2185	1415		
1350								1735	1800				1800	965	
1400								1415	1415				1415	770	
1450								1095	1095				1095	580	
1500								770	770				770	5150	

1. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

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