

Pressure/Temperature Ratings for Fisher® Valves (ASME B16.34-2013) - U.S. Traditional Units

Material Reference Guide Table

U.S. Traditional Units

Fisher valves conforming to ASME B16.34-2013 standard have specific pressure-temperature limits depending on construction materials. Use the material references in table 1 when determining pressure-temperature ratings of valves used in accordance with the ASME standard.

Table 1. Valve Body Materials

CATEGORY	ASME			
	Specification	Grade	Material Group	Nominal Designation
Carbon Steel	SA-216	WCC ⁽¹⁾	1.2	S-Mn-Si
	SA-352	LCC ⁽²⁾	1.2	S-Mn-Si
	SA-350	LF2	1.1	C-Mn-Si
Alloy Steels	SA-217	WC6	1.9	1-1/4Cr-1/2 Mo
		WC9	1.10	2-1/4Cr-1 Mo
		C12A	1.15	9Cr-1 Mo-V
Stainless Steel	SA-351	CF8M	2.2	16Cr-12 Ni-2Mo
		CF8	2.1	18Cr-8 Ni
		CF8C	2.11	18Cr-10 Ni-Cb
		CF3M	2.2	16Cr-12 Ni-2Mo
		CG8M	2.2	19Cr-10 Ni-3Mo
		CK3MCuN	2.8	20Cr-18 Ni-6Mo
	SA-995	CD3MN ⁽³⁾ (Grade 4A)	2.8	22Cr-5 Ni-3Mo-N
		CD3MWCuN (Grade 6A)	2.8	25Cr-7 Ni-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.



Standard Pressure-Temperature Ratings for CL150 and CL300 Valves

Fisher valve materials that conform to ASME B16.34-2013 Standard Class pressure-temperature ratings are listed in tables 2 and 3. These ratings apply to all Fisher cast, forged, and fabricated steel valves.

Table 2. For ASME Standard CL150 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6 (2)	WC9 (2)	C12A (2)	CF8 (2,3) or 304 (2,3)	CF8M (2,3) or 316(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 to 100	290	285	290	290	290	290	275	275	275	230	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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. Flanged end ratings terminate at 1000°F.
3. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Table 3. For ASME Standard CL300 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ^(2,3) or 304 ^(2,3)	CF8M ^(2,3) or 316 ^(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	---	---	---	---	---	---	40	40	---	---	---	40	25	---	---

1. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. Flanged end ratings terminate at 1000°F.
3. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Special Pressure-Temperature Ratings for CL150 and CL300 Threaded or Welding End Valves

Fisher valve materials that conform to ASME B16.34-2013 Special Class pressure-temperature ratings are listed in tables 4 and 5. These ratings apply to all Fisher cast, forged, and fabricated steel valves. Nondestructive examination applies (Fisher Process Level 6).

Table 4. For ASME Special CL150 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8(2) or 304(2)	CF8M(2) or 316(2)	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	---	---	---	225	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	160	---
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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves, Threaded or welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Table 5. For ASME Special CL300 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ⁽²⁾ or 304 ⁽²⁾	CF8M ⁽²⁾ or 316 ⁽²⁾	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	735	470	485	485	400	485	485	555	555	605
750	---	635	635	730	705	730	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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves. Threaded or welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Standard Pressure-Temperature Ratings for CL600 and CL900 Valves

Fisher valve materials that conform to ASME B16.34-2013 Standard Class pressure-temperature ratings are listed in tables 6 and 7. These ratings apply to all Fisher cast, forged, and fabricated steel valves.

Table 6. For ASME Standard CL600 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ^(2,3) or 304 ^(2,3)	CF8M ^(2,3) or 316 ^(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	1445	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	1065
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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher: The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.

2. Flanged end ratings terminate at 1000°F.

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

Table 7. For ASME Standard CL900 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ^(2,3) or 304 ^(2,3)	CF8M ^(2,3) or 316 ^(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	2165	2185	2185	1615	1680	1680	1370	1680	1680	1850	1850	2000
400	2110	1900	2110	2080	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	---	---	---	955	1160	1160	1145	1160	---	---	1160	1160	1160	1160	---
1000	---	---	---	650	800	1090	1065	1090	---	---	1090	1090	1090	1090	---
1050	---	---	---	430	525	1080	975	1080	---	---	---	1080	1080	---	---
1100	---	---	---	290	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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. Flanged end ratings terminate at 1000°F.
3. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Special Pressure-Temperature Ratings for CL600 and CL900 Threaded or Welding End Valves

Fisher valve materials that conform to ASME B16.34-2013 Special Class pressure-temperature ratings are listed in tables 8 and 9. These ratings apply to all Fisher cast, forged, and fabricated steel valves. Nondestructive examination applies (Fisher Process Level 6).

Table 8. For ASME Special CL600 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8(2) or 304(2)	CF8M(2) or 316(2)	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	755	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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves, Threaded or welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Table 9. For ASME Special CL900 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ⁽²⁾ or 304 ⁽²⁾	CF8M ⁽²⁾ or 316 ⁽²⁾	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 to 100	2250	2250	2250	2250	2250	2250	2250	2250	2250	2010	2250	2250	2250	2250	2250
200	2250	2250	2250	2250	2250	2250	2010	2075	2075	1710	2075	2075	2150	2220	2250
300	2250	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	1260	---	---	---	1260	1260	---	---
1100	---	---	---	360	410	1130	965	1145	---	---	---	1145	1170	---	---
1150	---	---	---	---	---	835	770	885	---	---	---	885	785	---	---
1200	---	---	---	---	---	540	615	695	---	---	---	695	565	---	---
1250	---	---	---	---	---	---	500	555	---	---	---	555	425	---	---
1300	---	---	---	---	---	---	425	435	---	---	---	435	285	---	---
1350	---	---	---	---	---	---	345	360	---	---	---	360	195	---	---
1400	---	---	---	---	---	---	285	285	---	---	---	285	155	---	---
1450	---	---	---	---	---	---	220	220	---	---	---	220	115	---	---
1500	---	---	---	---	---	---	155	155	---	---	---	155	105	---	---

1. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves, Threaded or welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Standard Pressure-Temperature Ratings for CL1500 and CL2500 Valves

Fisher valve materials that conform to ASME B16.34-2013 Standard Class pressure-temperature ratings are listed in tables 10 and 11. These ratings apply to all Fisher cast, forged, and fabricated steel valves.

Table 10. For ASME Standard CL1500 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ^(2,3) or 304 ^(2,3)	CF8M ^(2,3) or 316 ^(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	19360	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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
 2. Flanged end ratings terminate at 1000°F.
 3. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Table 11. For ASME Standard CL2500 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ^(2,3) or 304 ^(2,3)	CF8M ^(2,3) or 316 ^(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. Flanged end ratings terminate at 1000°F.
3. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Special Pressure-Temperature Ratings for CL1500 and CL2500 Threaded or Welding End Valves

Fisher valve materials that conform to ASME B16.34-2013 Special Class pressure-temperature ratings are listed in tables 12 and 13. These ratings apply to all Fisher cast, forged, and fabricated steel valves. Nondestructive examination applies (Fisher Process Level 6).

Table 12. For ASME Special CL1500 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ⁽²⁾ or 304 ⁽²⁾	CF8M ⁽²⁾ or 316 ⁽²⁾	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 to 100	3750	3750	3750	3750	3750	3750	3750	3750	3750	3350	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	2105	2105	---
1050	---	---	---	900	1095	2105	2035	2105	---	---	---	2105	2105	---	---
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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves, Threaded or welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Table 13. For ASME Special CL2500 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ⁽²⁾ or 304 ⁽²⁾	CF8M ⁽²⁾ or 316 ⁽²⁾	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 to 100	6250	6250	6250	6250	6250	6250	6250	6250	6250	5580	6250	6250	6250	6250	6250
200	6250	6250	6250	6250	6250	6250	5580	5760	5760	4755	5760	5760	5975	6160	6250
300	6250	6170	6250	6250	6160	6250	5000	5200	5200	4240	5200	5200	5490	5735	6205
400	6250	6105	6250	6250	6065	6250	4620	4775	4775	3905	4775	4775	5180	5355	5715
500	6250	6105	6250	6250	6035	6250	4330	4440	4440	3660	4440	4440	5000	5045	5400
600	6250	6105	6250	6250	6010	6250	4105	4195	4195	3460	4195	4195	4800	4800	5180
650	6250	5960	6250	6250	5965	6250	4020	4105	4105	3395	4105	4105	4710	4710	5090
700	---	5760	5940	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	2785	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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves, Threaded and welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Standard and Special Pressure-Temperature Ratings for CL4500 Valves

Fisher valve materials that conform to ASME B16.34-2013 Standard and Special Class pressure-temperature ratings are listed in tables 14 and 15. These ratings apply to all Fisher cast, forged, and fabricated steel valves. For Special Class pressure-temperature ratings, nondestructive examination applies (Fisher Process Level 6).

Table 14. For ASME Standard CL4500 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ^(2,3) or 304 ^(2,3)	CF8M ^(2,3) or 316 ^(2,3)	CF3M	316L	CG8M	317 (2,3)	CF8C (2,3)	347	CK3MCuN CD3MN CD3MWCuN
-20 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. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The user is advised that a valve used under the jurisdiction of the ASME Boiler and Pressure Vessel Code, ASME Code for Pressure Piping, or governmental regulations is subject to any limitation of that code or regulation. This includes any maximum temperature limitation for a material or rule governing the use of a material at a low temperature. Information copied with permission of the publisher; The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. Flanged end ratings terminate at 1000°F.
3. At temperatures over 1000°F, use material only when carbon content is 0.04% or higher.

Table 15. For ASME Special CL4500 Valves⁽¹⁾

SERVICE TEMP (°F)	WORKING PRESSURE (PSIG)														
	LCC	LF2	WCC	WC6	WC9	C12A (2)	CF8 ⁽²⁾ or 304 ⁽²⁾	CF8M ⁽²⁾ or 316 ⁽²⁾	CF3M	316L	CG8M	317 (2)	CF8C (2)	347	CK3MCuN CD3MN CD3MWCuN
-20 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	3855	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	515	---	---

1. Table information is extracted from the Valve—Flanged, Threaded, and Welding End, ASME Standard B16.34-2013. These tables must be used in accordance with the ASME standard. The ASME standard states in paragraph "2.1.3 Special Class Valves, Threaded or welding end valves that conform to all the requirements of para. 2.1.2 and in addition have successfully passed the examinations required by Section 8, may be designated Special Class valves." The standard also stipulates that, "Special Class ratings shall not be used for flanged end valves." Information copied with permission of the publisher, The American Society of Mechanical Engineers, 345 East 47th Street, New York, New York, 10017.
2. At temperatures over 1000° F, use material only when carbon content is 0.04% or higher.

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