

DSI® Pressure Seal Pressure Temperature Ratings

Pressure temperature ratings are based on ANSI B16.34 (1996 edition).

The temperatures shown are that of the pressure-containing shell, which is considered to be the same temperature as that of the fluid flowing within it.

Special consideration should be given to such items as trim, bonnet gasket material, and packing to assure that the rating is merited in all respects.

Maximum Allowable Non-Shock Pressure (PSIG)

Service Temperature		Class 600								Class 900							
°F	°C	WCB (a)	WC6 (c,d)	WC9 (c,d)	LCC (b)	C12 (d)	C12a	F91	CF8M (e)	WCB (a)	WC6 (c,d)	WC9 (c,d)	LCC (b)	C12 (d)	C12a	F91	CF8M (e)
-20 to 100	-29 to 38	1480	1500	1500	1500	1500	1500	1500	1440	2220	2250	2250	2250	2250	2250	2250	2160
200	93	1350	1500	1500	1500	1500	1500	1500	1240	2025	2250	2250	2250	2250	2250	2250	1860
300	149	1315	1445	1455	1455	1455	1455	1455	1120	1970	2165	2185	2185	2185	2185	2185	1680
400	204	1270	1385	1410	1410	1410	1410	1410	1025	1900	2080	2115	2115	2115	2115	2115	1540
500	260	1200	1330	1330	1330	1330	1330	1330	955	1795	1995	1995	1995	1995	1995	1995	1435
600	316	1095	1210	1210	1210	1210	1210	1210	900	1640	1815	1815	1815	1815	1815	1815	1355
650	343	1075	1175	1175	1175	1175	1175	1175	890	1610	1765	1765	1765	1765	1765	1765	1330
700	371	1065	1135	1135	1135	1135	1135	1135	870	1600	1705	1705	1705	1705	1705	1705	1305
750	399	1010	1065	1065	1010	1065	1065	1065	855	1510	1595	1595	1510	1595	1595	1595	1280
800	427	825	1015	1015	825	1015	1015	1015	845	1235	1525	1525	1235	1525	1525	1525	1265
850	454	535	975	975	535	975	975	975	835	805	1460	1460	805	1460	1460	1460	1255
900	482	345	900	900	345	900	900	900	830	515	1350	1350	515	1350	1350	1350	1245
950	510	205	640	755	205	755	775	775	775	310	955	1130	310	1130	1160	1160	1160
1000	538	105	430	520	105	505	725	725	700	155	650	780	155	760	1090	1090	1050
1050	566	–	290	350	–	345	720	720	685	–	430	525	–	515	1080	1080	1030
1100	593	–	190	220	–	225	605	605	310	–	290	330	–	340	905	905	915
1150	621	–	125	135	–	150	445	445	475	–	185	205	–	225	670	670	710
1200	649	–	75	80	–	105	290	290	370	–	115	125	–	155	430	430	555

Service Temperature		Class 1500								Class 2500							
°F	°C	WCB (a)	WC6 (c,d)	WC9 (c,d)	LCC (b)	C12 (d)	C12a	F91	CF8M (e)	WCB (a)	WC6 (c,d)	WC9 (c,d)	LCC (b)	C12 (d)	C12a	F91	CF8M (e)
-20 to 100	-29 to 38	3705	3750	3750	3750	3750	3750	3750	3600	6170	6250	6250	6250	6250	6250	6250	6000
200	93	3375	3750	3750	3750	3750	3750	3750	3095	5625	6250	6250	6250	6250	6250	6250	5160
300	149	3280	3610	3640	3640	3640	3640	3640	2795	5470	6015	6070	6070	6070	6070	6070	4660
400	204	3170	3465	3530	3530	3530	3530	3530	2570	5280	5775	5880	5880	5880	5880	5880	4280
500	260	2995	3325	3325	3325	3325	3325	3325	2390	4990	5540	5540	5540	5540	5540	5540	3980
600	316	2735	3025	3025	3025	3025	3025	3025	2255	4560	5040	5040	5040	5040	5040	5040	3760
650	343	2685	2940	2940	2940	2940	2940	2940	2220	4475	4905	4905	4905	4905	4905	4905	3700
700	371	2665	2840	2840	2840	2840	2840	2840	2170	4440	4730	4730	4730	4730	4730	4730	3620
750	399	2520	2660	2660	2520	2660	2660	2660	2135	4200	4430	4430	4200	4430	4430	4430	3560
800	427	2060	2540	2540	2060	2540	2540	2540	2110	3430	4230	4230	3430	4230	4230	4230	3520
850	454	1340	2435	2435	1340	2435	2435	2435	2090	2230	4060	4060	2230	4060	4060	4060	3480
900	482	860	2245	2245	860	2245	2245	2245	2075	1430	3745	3745	1430	3745	3745	3745	3460
950	510	515	1595	1885	515	1885	1930	1930	1930	860	2655	3145	860	3145	3220	3220	3220
1000	538	260	1080	1305	260	1270	1820	1820	1750	430	1800	2170	430	2115	3030	3030	2915
1050	566	–	720	875	–	855	1800	1800	1720	–	1200	1455	–	1430	3000	3000	2865
1100	593	–	480	550	–	565	1510	1510	1525	–	800	915	–	945	2515	2515	2545
1150	621	–	310	345	–	375	1115	1115	1185	–	515	570	–	630	1855	1855	1970
1200	649	–	190	205	–	255	720	720	925	–	315	345	–	430	1200	1200	1545

Notes:

- (a) Permissible, but not recommended for prolonged exposure above about 800°F. Upon prolonged exposure to temperatures above about 800°F, the carbide phase of Carbon Steel may be converted to Graphite.
- (b) Not to be used over 650°F.

- (c) Not to be used over 1100°F.
- (d) Use normalized and tempered material only.
- (e) At temperatures over 1000°F, use only when the Carbon content is 0.04% or higher.