

Pressure-Temperature Ratings

ANSI B16.34 (1977)

STANDARD CLASS VALVES - Flanged and Butt Welding End

CLASS 150

TEMPERATURE °F	CF3**	CF3M**	CF8C
	CF8	CF8M	
-20 to 100	275	275	275
200	235	240	245
300	205	215	225
400	180	195	200
500	170	170	170
600	140	140	140
650	125	125	125
700	110	110	110
750	95	95	95
800	80	80 †	80
850	65	65 †	65
900	50	50 †	50
950	35	35 †	35
1000	20 †	20 †	20 †
1050	20*†	20*†	20*†
1100	20*†	20*†	20*†
1150	20*†	20*†	20*†
1200	20*†	20*†	20*†
1250	20*†	20*†	20*†
1300	20*†	20*†	20*†
1350	20*†	20*†	20*†
1400	20*†	20*†	20*†
1450	15*†	20*†	20*†
1500	10*†	15*†	15*†

CLASS 300

TEMPERATURE °F	CF3**	CF3M**	CF8C
	CF8	CF8M	
-20 to 100	720	720	720
200	600	620	635
300	530	560	590
400	470	515	555
500	435	480	520
600	415	450	490
650	410	445	480
700	405	430	470
750	400	425	460
800	395	415†	455
850	390	405†	445
900	385	395†	430
950	375	385†	385
1000	325†	365†	365†
1050	310†	360†	360†
1100	260†	325†	325†
1150	195†	275†	275†
1200	155†	205†	170†
1250	110†	180†	125†
1300	85†	140†	95†
1350	60†	105†	70†
1400	50†	75†	50†
1450	35†	60†	40†
1500	25†	40†	35†

CLASS 600

TEMPERATURE °F	CF3**	CF3M**	CF8C
	CF8	CF8M	
-20 to 100	1440	1440	1440
200	1200	1240	1270
300	1055	1120	1175
400	940	1030	1110
500	875	955	1035
600	830	905	985
650	815	890	960
700	805	865	920
750	795	845	920
800	790	830†	910
850	780	810†	890
900	770	790†	865
950	750	775†	775
1000	645†	725†	725†
1050	620†	720†	720†
1100	515†	645†	645†
1150	390†	550†	550†
1200	310†	410†	345†
1250	220†	365†	245†
1300	165†	275†	185†
1350	125†	205†	135†
1400	95†	150†	105†
1450	70†	115†	80†
1500	50†	85†	70†

CLASS 900

TEMPERATURE °F	CF3**	CF3M**	CF8C
	CF8	CF8M	
-20 to 100	2160	2160	2160
200	1800	1860	1910
300	1585	1680	1765
400	1410	1540	1665
500	1310	1435	1555
600	1245	1355	1475
650	1225	1330	1440
700	1210	1295	1405
750	1195	1270	1385
800	1180	1245†	1370
850	1165	1215†	1330
900	1150	1180†	1295
950	1125	1160†	1160
1000	965†	1090†	1090†
1050	925†	1080†	1080†
1100	770†	965†	965†
1150	585†	825†	825†
1200	4650†	620†	515†
1250	330†	545†	370†
1300	245†	410†	280†
1350	185†	310†	205†
1400	145†	225†	155†
1450	105†	175†	125†
1500	70†	125†	105†

CLASS 1500

TEMPERATURE °F	CF3**	CF3M**	CF8C
	CF8	CF8M	
-20 to 100	3600	3600	3600
200	3000	3095	3180
300	2640	2795	2940
400	2350	2570	2770
500	2185	2390	2590
600	2075	2255	2460
650	2040	2220	2400
700	2015	2160	2340
750	1900	2100	2305
800	1970	2075†	2280
850	1945	2030†	2220
900	1920	1970†	2160
950	1870	1930†	1930
1000	1610†	1820†	1820†
1050	1545†	1800†	1800†
1100	1285†	1610†	1610†
1150	980†	1370†	1370†
1200	770†	1030†	855†
1250	550†	910†	615†
1300	410†	685†	465†
1350	310†	515†	345†
1400	240†	380†	255†
1450	170†	290†	205†
1500	120†	205†	170†

CLASS 2500

TEMPERATURE °F	CF3**	CF3M**	CF8C
	CF8	CF8M	
-20 to 100	6000	6000	6000
200	5000	5160	5300
300	4400	4665	4900
400	3920	4280	4620
500	3640	3760	4100
600	3460	3760	4100
650	3400	3700	4000
700	3360	3600	3900
750	3320	3520	3840
800	3280	3460†	3800
850	3240	3320†	3700
900	3200	3280†	3600
950	3120	3220†	3220
1000	2685†	3030†	3030†
1050	2570†	3000†	3000†
1100	2145†	2685†	2685†
1150	1630†	2285†	2285†
1200	1285†	1715†	1430†
1250	915†	1515†	1030†
1300	685†	1145†	770†
1350	515†	860†	570†
1400	400†	630†	430†
1450	285†	485†	345†
1500	200†	345†	285†

Pounds per square inch gauge (psig).

CN7M (Alloy 20) ratings same as CF8. Temperature limit 800°F.

* For welding end valves only

† Use only when the carbon content is 0.04 percent and above.

** Not to be used over 800°F.