

# WORKING PRESSURES FOR VALVES ANSI B16.34-1977 MAXIMUMS

All pressures are in pounds per square inch (Gauge).  
Temperatures and pressures listed are maximum internal fluid temperatures and pressures.

Pressure Class Rating		150	300	600	900	1500	2500	4500
Hydrostatic Shell Test Pressure (PSIG)		450	1125	2250	3375	5625	9375	16875
Working Temp. (Deg. F.)	Material ASTM Specification Alloy Grade Designation	Maximum Non-Shock Working Pressure (PSIG) Standard Class Valves						
		150	300	600	900	1500	2500	4500
-20 to 100	WCB	285	740	1480	2220	3705	6170	11110
	WC6	290	750	1500	2250	3750	6250	11250
	WC9	290	750	1500	2250	3750	6250	11250
	C5	290	750	1500	2250	3750	6250	11250
200	LCB	265	695	1390	2085	3470	5785	10415
	CF8M	275	720	1440	2160	3600	6000	10800
	WCB	260	665	1350	2025	3375	5625	10120
	WC6	260	710	1425	2135	3560	5930	10675
300	WC9	260	715	1430	2150	3580	5965	10740
	C5	260	750	1500	2250	3750	6250	11250
	LCB	250	655	1315	1970	3280	5470	9845
	CF8M	240	620	1240	1860	2795	4660	8390
400	WCB	230	655	1315	1970	3280	5470	9845
	WC6	230	675	1345	2020	3365	5605	10090
	WC9	230	675	1355	2030	3385	5640	10150
	C5	230	730	1455	2185	3640	6070	10925
500	LCB	230	640	1275	1915	3190	5315	9565
	CF8M	215	560	1120	1680	2795	4660	8390
	WCB	200	635	1270	1900	3170	5280	9505
	WC6	200	660	1315	1975	3290	5485	9875
600	WC9	200	650	1295	1945	3240	5400	9720
	C5	200	705	1410	2115	3530	5880	10585
	LCB	200	620	1235	1850	3085	5145	9260
	CF8M	195	515	1030	1540	2570	4280	7705
700	WCB	170	600	1200	1795	2995	4990	8980
	WC6	170	640	1285	1925	3210	5350	9630
	WC9	170	640	1280	1920	3200	5330	9595
	C5	170	665	1330	1995	3325	5540	9965
800	LCB	170	585	1165	1745	2910	4850	8735
	CF8M	170	480	955	1435	2390	3980	7165
	WCB	140	550	1095	1640	2735	4560	8210
	WC6	140	605	1210	1815	3025	5040	9070
900	WC9	140	605	1210	1815	3025	5040	9070
	C5	140	605	1210	1815	3025	5040	9070
	LCB	140	535	1065	1600	2665	4440	7990
	CF8M	140	450	905	1355	2255	3760	6770
1000	WCB	125	535	1075	1610	2685	4475	8055
	WC6	125	590	1175	1765	2940	4905	8825
	WC9	125	590	1175	1765	2940	4905	8825
	C5	125	590	1175	1765	2940	4905	8825
1100	LCB	125	525	1045	1570	2615	4355	7840
	CF8M	125	445	890	1330	2220	3700	6660

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		150	300	600	900	1500	2500	4500
700	WCB	110	535	1065	1600	2665	4440	7990
	WC6	110	570	1135	1705	2840	4730	8515
	WC9	110	570	1135	1705	2840	4730	8515
	C5	110	570	1135	1705	2840	4730	8515
750	CF8M	110	430	865	1295	2160	3600	6480
	WCB	95	505	1010	1510	2520	4200	7560
	WC6	95	530	1065	1595	2660	4430	7970
	WC9	95	530	1065	1595	2660	4430	7970
800	C5	95	530	1065	1595	2660	4430	7970
	CF8M	95	425	845	1270	2110	3520	6335
	WCB	80	410	825	1235	2060	3430	6170
	WC6	80	510	1015	1525	2540	4230	7610
850	WC9	80	510	1015	1525	2540	4230	7610
	C5	80	500	995	1490	2485	4145	7460
	CF8M	80	415	830	1245	2075	3460	6230
	WCB <sup>1)</sup>	65	270	535	805	1340	2230	4010
900	WC6	65	485	975	1460	2435	4060	7305
	WC9	65	480	975	1460	2435	4060	7305
	C5	65	440	880	1315	2195	3660	6585
	WCB <sup>1)</sup>	50	170	345	515	860	1430	2570
950	WC6	50	450	900	1350	2245	3745	6740
	WC9	50	450	900	1350	2245	3745	6740
	C5	50	355	705	1060	1765	2945	5300
	WCB <sup>1)</sup>	35	105	205	310	515	860	1545
1000	WC6	35	380	755	1130	1885	3145	5660
	WC9	35	380	755	1130	1885	3145	5660
	C5	35	260	520	780	1305	2170	3910
	WCB <sup>1)</sup>	20	50	105	155	260	430	770
1050	WC6	20	225	445	670	1115	1860	3345
	WC9	20	270	535	805	1340	2230	4010
	C5	20	190	385	575	960	1600	2880
	WC6	20 <sup>2)</sup>	140	275	410	685	1145	2060
1100	WC9	20 <sup>2)</sup>	200	400	595	995	1660	2985
	C5	20 <sup>2)</sup>	140	280	420	705	1170	2110
	WC6	20 <sup>2)</sup>	95	190	290	480	800	1440
	WC9	20 <sup>2)</sup>	115	225	340	565	945	1700
1150	C5	20 <sup>2)</sup>	105	205	310	515	860	1545
	C5	20 <sup>2)</sup>	70	140	205	345	570	1030
1200	C5	20 <sup>2)</sup>	45	90	135	225	370	670

<sup>1)</sup> Permissible but not recommended by ANSI B16.34 for prolonged use above ± 800°F.

<sup>2)</sup> For welded end valve only.

ANSI B16.34 flanged end rating terminal at 1000°F.