



**Pressure Rating Ceiling Values**

Compilation of technical data.  
 PAI does not assume any responsibility.

Temperature, °F	Working Pressure by Classes, psig						
	150	300	400	600	900	1500	2500
- 20 to 100	290	750	1000	1500	2250	3750	6250
200	260	750	1000	1500	2250	3750	6250
300	230	730	970	1455	2185	3640	6070
400	200	705	940	1410	2115	3530	5880
500	170	665	885	1330	1995	3325	5540
600	140	605	805	1210	1815	3025	5040
650	125	590	785	1175	1765	2940	4905
700	110	570	755	1135	1705	2840	4730
750	95	530	710	1065	1595	2660	4430
800	80	510	675	1015	1525	2540	4230
850	65	485	650	975	1460	2435	4060
900	50	450	600	900	1350	2245	3745
950	35	385	515	775	1160	1930	3220
1000	20	365	485	725	1090	1820	3030
1050	20(1)	360	480	720	1080	1800	3000
1100	20(1)	325	430	645	965	1610	2685
1150	20(1)	275	365	550	825	1370	2285
1200	20(1)	205	275	410	620	1030	1715
1250	20(1)	180	245	365	545	910	1515
1300	20(1)	140	185	275	410	685	1145
1350	20(1)	105	140	205	310	515	860
1400	20(1)	75	100	150	225	380	630
1450	20(1)	60	80	115	175	290	485
1500	15(1)	40	55	85	125	205	345

NOTE:(1) For welding end valves only. Flange ratings terminate at 1000°F.

Temperature, °C	Gage Working Pressure by Rating Number, bar						
	PN 20	PN 50	PN 68	PN 100	PN 150	PN 250	PN 420
- 29 to 38	20.0	51.7	69.0	103.4	155.2	258.6	431.0
50	19.5	51.7	69.0	103.4	155.2	258.6	431.0
100	17.7	51.5	68.7	103.1	154.6	257.7	429.5
150	15.8	50.2	66.9	100.4	150.6	251.0	418.3
200	14.0	48.8	65.0	97.6	146.4	243.9	406.6
250	12.1	46.3	61.8	92.7	139.0	231.7	386.1
300	10.2	42.4	56.6	84.9	127.3	212.1	353.5
350	8.4	40.2	53.6	80.5	120.7	201.2	335.3
375	7.4	38.8	51.7	77.6	116.4	194.0	323.4
400	6.5	36.6	48.8	73.2	109.8	182.9	304.9
425	5.6	35.1	46.8	70.2	105.3	175.5	292.5
450	4.7	33.8	45.1	67.6	101.4	169.0	281.7
475	3.7	31.7	42.2	63.3	95.0	158.3	263.8
500	2.8	28.2	37.6	56.4	84.6	141.0	235.1
525	1.9	25.8	34.4	51.6	77.4	129.0	214.9
550	1.3(1)	25.0	33.3	49.9	74.9	124.8	208.0
575	1.3(1)	24.1	32.1	48.2	72.3	120.5	200.8
600	1.3(1)	21.4	28.6	42.9	64.3	107.2	178.6
625	1.3(1)	18.3	24.3	36.5	54.8	91.3	152.1
650	1.3(1)	14.1	18.8	28.2	42.4	70.6	117.7
675	1.3(1)	12.6	16.8	25.3	37.9	63.2	105.3
700	1.3(1)	9.9	13.3	19.9	29.8	49.7	82.9
725	1.3(1)	7.7	10.3	15.4	23.1	38.5	64.2
750	1.3(1)	5.9	7.8	11.0	17.6	29.4	49.0
775	1.3(1)	4.6	6.1	9.1	13.7	22.8	38.0
800	1.0(1)	3.5	4.7	7.0	10.5	17.5	29.2

NOTE: (1) For welding end valves only. Flange ratings terminate at 540°C.

NOTE: These tables are guidelines only. For ratings of individual materials please refer to related ANSI specifications.

Copy of American National Standard Valves—Flanged and Butt-welding end ANSI B16.34 (1981). Pipe Flanges and Flanged Fittings ANSI B16.5 (1981).