

Common Pressure/Temperature Tables from ASME B16.34 – 2004

	Temp °C	Working Pressure by Class, bar				
ASTM A105 (1)(2)		150	300	600	900	1500
ASTM A216 Gr WCB (1)	-29 to 38	19.6	51.1	102.1	153.2	255.3
ASTM A350 Gr LF2 (1)	50	19.2	50.1	100.2	150.4	250.6
	100	17.7	46.6	93.2	139.8	233.0
Notes:	150	15.8	45.1	90.2	135.2	225.4
(1) Upon prolonged exposure to temperatures above 425°C, the carbide phase of steel may be converted to graphite. Permissible, but not recommended for prolonged usage above 425°C	200	13.8	43.8	87.6	131.4	219.0
(2) Only killed steel shall be used above 455°C	250	12.1	41.9	83.9	125.8	209.7
	300	10.2	39.8	79.6	119.5	199.1
	325	9.3	38.7	77.4	116.1	193.6
	350	8.4	37.6	75.1	112.7	187.8
	375	7.4	36.4	72.7	109.1	181.8
	400	6.5	34.7	69.4	104.2	173.6
	425	5.5	28.8	57.5	86.3	143.8
	450	4.6	23.0	46.0	69.0	115.0
	475	3.7	17.4	34.9	52.3	87.2
	500	2.8	11.8	23.5	35.3	58.8
	538	1.4	5.9	11.8	17.7	29.5
	Temp °C	Working Pressure by Class, bar				
ASTM A352 Gr LCB (1)		150	300	600	900	1500
	-29 to 38	18.4	48.0	96.0	144.1	240.1
Notes:	50	18.2	47.5	94.9	142.4	237.3
(1) Not to be used over 345°C	100	17.4	45.3	90.7	136.0	226.7
	150	15.8	43.9	87.9	131.8	219.7
	200	13.8	42.5	85.1	127.6	212.7
	250	12.1	40.8	81.6	122.3	203.9
	300	10.2	38.7	77.4	116.1	193.4
	325	9.3	37.6	75.2	112.7	187.9
	350	8.4	36.4	72.8	109.2	182.0
	Temp °C	Working Pressure by Class, bar				
ASTM A352 Gr LCC (1)		150	300	600	900	1500
	-29 to 38	19.8	51.7	103.4	155.1	258.6
Notes:	50	19.5	51.7	103.4	155.1	258.6
(1) Not to be used over 345°C	100	17.7	51.5	103.0	154.6	257.6
	150	15.8	50.2	100.3	150.5	250.8
	200	13.8	48.6	97.2	145.8	243.2
	250	12.1	46.3	92.7	139.0	231.8
	300	10.2	42.9	85.7	128.6	214.4
	325	9.3	41.4	82.6	124.0	206.6
	350	8.4	40.0	80.0	120.1	200.1
	Temp °C	Working Pressure by Class, bar				
ASTM A351 Gr CF8M (1)(a)		150	300	600	900	1500
	-29 to 38	19.0	49.6	99.3	148.9	248.2
Notes:	50	18.4	48.1	96.2	144.3	240.6
(1) At temperatures above 538°C, use only when the Carbon content is 0.04% or higher.	100	16.2	42.2	84.4	126.6	211.0
(a) Flanged end valve ratings terminate at 538°C on Class 150	150	14.8	38.5	77.0	115.5	192.5
	200	13.7	35.7	71.3	107.0	178.3
	250	12.1	33.4	66.8	100.1	166.9
	300	10.2	31.6	63.2	94.9	158.1
	325	9.3	30.9	61.8	92.7	154.4
	350	8.4	30.3	60.7	91.0	151.6
	375	7.4	29.9	59.8	89.6	149.4
	400	6.5	29.4	58.9	88.3	147.2
	425	5.5	29.1	58.3	87.4	145.7
	450	4.6	28.8	57.7	86.5	144.2
	475	3.7	28.7	57.3	86.0	143.4
	500	2.8	28.2	56.5	84.7	140.9
	538	1.4	25.2	50.0	75.2	125.5
	550	1.4(a)	25.0	49.8	74.8	124.9
	575	1.4(a)	24.0	47.9	71.8	119.7
	600	1.4(a)	19.9	39.8	59.7	99.5
	625	1.4(a)	15.8	31.6	47.4	79.1
	650	1.4(a)	12.7	25.3	38.0	63.3
	675	1.4(a)	10.3	20.6	31.0	51.6
	700	1.4(a)	8.4	16.8	25.1	41.9
	725	1.4(a)	7.0	14.0	21.0	34.9
	750	1.4(a)	5.9	11.7	17.6	29.3
	775	1.4(a)	4.6	9.0	13.7	22.8
	800	1.2(a)	3.5	7.0	10.5	17.4
	816	1.0(a)	2.8	5.9	8.6	14.1

