

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels					241				359				448				
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
0.840	0.083	21.3	2.1	0.99	17.1	3,030	41,580	42,890	34,220	4,520	61,940	63,730	50,970	5,640	77,300	79,660	63,600
	0.091		2.3	1.08	16.7	3,290	45,540	46,490	37,470	4,900	67,840	69,070	55,820	6,110	84,660	86,330	69,660
	0.109		2.8	1.28	15.7	3,900	55,440	55,100	45,620	5,810	82,590	81,870	67,960	7,240	103,060	102,340	84,800
	0.147		3.7	1.61	13.9	4,900	73,260	69,270	60,280	7,300	109,130	102,920	89,800	9,110	136,190	128,650	112,060
	0.188		4.8	1.95	11.7	5,960	95,040	84,250	78,210	8,880	141,580	125,180	116,500	11,080	176,680	156,470	145,380
	0.294		7.5	2.55	6.3	7,790	148,500	110,100	122,200	11,600	221,210	163,580	182,030	14,480	276,060	204,480	227,150
1.050	0.083	26.7	2.1	1.27	22.5	3,890	33,170	34,970	27,300	5,790	49,410	51,960	40,660	7,220	61,660	64,950	50,740
	0.091		2.3	1.38	22.1	4,220	36,330	37,990	29,890	6,290	54,120	56,450	44,530	7,850	67,540	70,560	55,570
	0.113		2.9	1.70	20.9	5,190	45,810	46,730	37,690	7,740	68,240	69,420	56,150	9,650	85,150	86,780	70,070
	0.126		3.2	1.85	20.3	5,660	50,550	50,910	41,590	8,430	75,300	75,640	61,960	10,520	93,960	94,550	77,320
	0.154		3.9	2.19	18.9	6,690	61,600	60,200	50,690	9,970	91,770	89,440	75,510	12,440	114,520	111,800	94,230
	0.219		5.6	2.91	15.5	8,890	88,460	80,000	72,790	13,240	131,770	118,850	108,430	16,530	164,430	148,560	135,310
1.315	0.083	33.4	2.1	1.62	29.2	4,950	26,520	28,440	21,820	7,370	39,500	40,680	32,500	9,190	49,290	48,240	40,560
	0.091		2.3	1.76	28.8	5,380	29,040	30,950	23,900	8,020	43,260	45,980	35,600	10,000	53,990	56,350	44,420
	0.109		2.8	2.11	27.8	6,450	35,360	37,070	29,090	9,600	52,670	55,070	43,340	11,980	65,720	68,840	54,080
	0.133		3.4	2.52	26.6	7,670	42,930	44,130	35,330	11,430	63,950	65,560	52,620	14,270	79,810	81,950	65,670
	0.179		4.5	3.21	24.4	9,780	56,820	56,260	46,760	14,570	84,640	83,590	69,650	18,190	105,630	104,490	86,920
	0.250		6.4	4.26	20.6	13,000	80,810	74,760	66,500	19,370	120,380	111,070	99,060	24,170	150,230	138,840	123,620
1.660	0.083	42.2	2.1	2.08	38.0	6,340	20,990	20,510	17,270	9,440	31,260	26,670	25,730	11,780	39,010	30,490	32,100
	0.091		2.3	2.26	37.6	6,900	22,990	23,870	18,910	10,280	34,240	31,730	28,180	12,830	42,730	36,910	35,160
	0.109		2.8	2.72	36.6	8,300	27,980	29,900	23,030	12,360	41,680	44,400	34,300	15,430	52,020	52,950	42,800
	0.126		3.2	3.08	35.8	9,390	31,980	33,820	26,320	13,990	47,640	50,250	39,200	17,450	59,450	62,810	48,920
	0.140		3.6	3.43	35.0	10,450	35,980	37,660	29,610	15,570	53,590	55,950	44,100	19,430	66,880	69,940	55,030
	0.191		4.9	4.51	32.4	13,750	48,970	49,530	40,300	20,480	72,950	73,590	60,030	25,560	91,030	91,990	74,910
1.900	0.083	48.3	2.1	2.39	44.1	7,300	18,340	16,060	15,090	10,870	27,320	19,950	22,480	13,570	34,090	21,980	28,050
	0.091		2.3	2.61	43.7	7,960	20,080	18,990	16,530	11,860	29,920	24,370	24,620	14,800	37,330	27,590	30,720
	0.109		2.8	3.14	42.7	9,580	24,450	26,330	20,120	14,280	36,420	35,440	29,970	17,820	45,450	41,600	37,400
	0.126		3.2	3.56	41.9	10,860	27,940	29,860	22,990	16,170	41,620	44,290	34,250	20,180	51,940	52,810	42,740
	0.145		3.7	4.07	40.9	12,420	32,310	34,140	26,580	18,490	48,130	50,720	39,600	23,080	60,060	63,400	49,420
	0.200		5.1	5.43	38.1	16,580	44,530	45,580	36,640	24,690	66,340	67,720	54,590	30,810	82,780	84,650	68,120
2 3/8	0.083	60.3	2.1	3.01	56.1	9,200	14,690	10,160	12,090	13,700	21,880	12,310	18,000	17,090	27,300	13,550	22,470
	0.109		2.8	3.97	54.7	12,110	19,580	18,150	16,110	18,040	29,170	23,110	24,000	22,520	36,400	25,980	29,960
	0.125		3.2	4.51	53.9	13,750	22,380	22,850	18,420	20,480	33,340	30,200	27,430	25,550	41,610	34,960	34,240
	0.141		3.6	5.03	53.1	15,360	25,180	27,090	20,720	22,880	37,510	37,290	30,860	28,550	46,810	43,950	38,510
	0.154		3.9	5.42	52.5	16,550	27,280	29,200	22,450	24,650	40,630	42,610	33,440	30,760	50,710	50,680	41,720
	0.172		4.4	6.06	51.5	18,500	30,770	32,650	25,320	27,570	45,840	48,500	37,720	34,400	57,210	60,630	47,070
2 7/8	0.083	73.0	2.1	3.67	68.8	11,200	12,130	7,060	9,980	16,690	18,070	7,980	14,870	20,820	22,550	8,170	18,560
	0.109		2.8	4.85	67.4	14,790	16,180	12,420	13,310	22,030	24,100	14,840	19,830	27,490	30,070	16,680	24,740
	0.125		3.2	5.51	66.6	16,800	18,490	16,310	15,210	25,030	27,540	20,330	22,660	31,240	34,370	22,460	28,280
	0.141		3.6	6.16	65.8	18,800	20,800	20,190	17,110	28,000	30,980	26,190	25,490	34,940	38,660	29,880	31,810

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MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

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3 1/2	0.156	88.9	4.0	6.81	65.0	20,760	23,110	24,080	19,020	30,930	34,420	32,040	28,330	38,600	42,960	37,300	35,350
	0.172		4.4	7.44	64.2	22,710	25,420	27,340	20,920	33,830	37,870	37,900	31,160	42,210	47,250	44,720	38,880
	0.188		4.8	8.07	63.4	24,630	27,730	29,650	22,820	36,690	41,310	43,760	33,990	45,780	51,550	52,140	42,420
	0.203		5.2	8.69	62.6	26,520	30,040	31,930	24,720	39,510	44,750	47,440	36,820	49,310	55,850	59,300	45,950
	0.216		5.5	9.15	62.0	27,930	31,780	33,620	26,150	41,610	47,330	49,950	38,950	51,920	59,070	62,440	48,600
	0.250		6.4	10.51	60.2	32,070	36,980	38,600	30,430	47,770	55,080	57,350	45,320	59,610	68,730	71,690	56,560
	0.276		7.0	11.39	59.0	34,760	40,440	41,840	33,280	51,780	60,240	62,170	49,570	64,610	75,180	77,710	61,860
	0.375		9.5	14.87	54.0	45,390	54,890	54,630	45,160	67,610	81,760	81,170	67,280	84,370	102,030	101,460	83,950
	0.552		14.0	20.37	45.0	62,140	80,880	74,810	66,560	92,570	120,490	111,140	99,140	115,520	150,360	138,930	123,720
4	0.083	101.6	2.1	4.49	84.7	13,710	9,960	4,430	8,200	20,430	14,840	4,480	12,210	25,490	18,520	4,480	15,240
	0.109		2.8	5.94	83.3	18,140	13,280	8,460	10,930	27,020	19,790	9,930	16,280	33,720	24,690	10,590	20,320
	0.125		3.2	6.76	82.5	20,630	15,180	10,760	12,490	30,730	22,610	13,150	18,610	38,350	28,220	14,590	23,220
	0.141		3.6	7.57	81.7	23,100	17,080	13,940	14,050	34,420	25,440	16,760	20,930	42,950	31,750	18,580	26,120
	0.156		4.0	8.37	80.9	25,550	18,980	17,130	15,610	38,060	28,270	21,570	23,260	47,500	35,280	24,030	29,030
	0.172		4.4	9.17	80.1	27,970	20,870	20,320	17,180	41,670	31,090	26,380	25,590	52,000	38,800	30,120	31,930
	0.188		4.8	9.95	79.3	30,370	22,770	23,510	18,740	45,240	33,920	31,190	27,910	56,460	42,330	36,220	34,830
	0.216		5.5	11.31	77.9	34,510	26,090	28,010	21,470	51,410	38,870	39,610	31,980	64,150	48,500	46,880	39,910
	0.250		6.4	13.02	76.1	39,720	30,360	32,240	24,980	59,170	45,230	47,910	37,220	73,840	56,440	59,880	46,440
	0.281		7.1	14.32	74.7	43,690	33,680	35,470	27,720	65,090	50,180	52,690	41,290	81,230	62,610	65,870	51,520
	0.300		7.6	15.24	73.7	46,490	36,060	37,730	29,670	69,250	53,710	56,060	44,190	86,410	67,020	70,080	55,150
	0.438		11.1	21.29	66.7	64,970	52,660	52,740	43,330	96,780	78,440	78,350	64,550	120,780	97,890	97,940	80,550
	0.600		15.2	27.62	58.5	84,280	72,110	68,410	59,340	125,550	107,420	101,640	88,390	156,670	134,050	127,050	110,300
4	0.083	101.6	2.1	5.15	97.4	15,720	8,720	2,980	7,170	23,420	12,990	2,980	10,690	29,220	16,200	2,980	13,330
	0.109		2.8	6.82	96.0	20,810	11,620	6,450	9,560	31,000	17,310	7,110	14,250	38,690	21,610	7,170	17,780
	0.125		3.2	7.76	95.2	23,690	13,280	8,460	10,930	35,290	19,790	9,930	16,280	44,040	24,690	10,590	20,320
	0.141		3.6	8.70	94.4	26,540	14,940	10,480	12,300	39,540	22,260	12,750	18,320	49,340	27,780	14,090	22,860
	0.156		4.0	9.63	93.6	29,370	16,600	13,140	13,660	43,750	24,730	15,570	20,350	54,600	30,870	17,580	25,400
	0.172		4.4	10.55	92.8	32,180	18,260	15,930	15,030	47,930	27,210	19,760	22,390	59,810	33,950	21,750	27,940
	0.188		4.8	11.46	92.0	34,960	19,930	18,730	16,400	52,070	29,680	23,970	24,420	64,980	37,040	27,080	30,480
	0.226		5.7	13.48	90.2	41,130	23,660	25,000	19,470	61,260	35,250	33,440	29,000	76,450	43,980	39,070	36,190
	0.250		6.4	15.02	88.8	45,840	26,570	28,490	21,860	68,280	39,570	40,810	32,560	85,210	49,390	48,400	40,640
	0.281		7.1	16.54	87.4	50,480	29,470	31,370	24,250	75,190	43,900	46,610	36,130	93,840	54,790	57,730	45,080
	0.318		8.1	18.67	85.4	56,980	33,620	35,410	27,670	84,880	50,090	52,610	41,210	105,920	62,500	65,760	51,430
	0.559		14.2	30.60	73.2	93,370	58,950	58,030	48,500	139,090	87,810	86,210	72,250	173,570	109,570	107,760	90,160
4 1/2	0.083	114.3	2.1	5.81	110.1	17,730	7,750	2,080	6,380	26,410	11,540	2,080	9,500	32,950	14,400	2,080	11,850
	0.110		2.8	7.70	108.7	23,490	10,330	4,880	8,500	34,990	15,390	5,000	12,660	43,660	19,210	5,000	15,800
	0.125		3.2	8.77	107.9	26,750	11,810	6,670	9,720	39,840	17,590	7,430	14,470	49,720	21,950	7,520	18,060
	0.141		3.6	9.83	107.1	29,980	13,280	8,460	10,930	44,660	19,790	9,930	16,280	55,740	24,690	10,590	20,320
	0.156		4.0	10.88	106.3	33,190	14,760	10,250	12,140	49,450	21,990	12,440	18,090	61,700	27,440	13,700	22,580
	0.172		4.4	11.92	105.5	36,380	16,240	12,520	13,360	54,190	24,180	14,940	19,900	67,630	30,180	16,810	24,830
	0.188		4.8	12.96	104.7	39,540	17,710	15,000	14,570	58,900	26,380	18,360	21,710	73,510	32,920	19,970	27,090
	0.203		5.2	13.99	103.9	42,680	19,190	17,480	15,790	63,580	28,580	22,100	23,520	79,340	35,670	24,710	29,350
	0.219		5.6	15.01	103.1	45,800	20,660	19,970	17,000	68,220	30,780	25,840	25,330	85,130	38,410	29,450	31,610
	0.237		6.0	16.02	102.3	48,890	22,140	22,450	18,220	72,820	32,980	29,580	27,140	90,880	41,150	34,190	33,860
	0.250		6.4	17.03	101.5	51,950	23,620	24,930	19,430	77,390	35,180	33,330	28,950	96,580	43,900	38,920	36,120
	0.281		7.1	18.77	100.1	57,260	26,200	28,120	21,560	85,300	39,030	39,870	32,110	106,450	48,700	47,220	40,070
	0.312		7.9	20.73	98.5	63,240	29,150	31,050	23,990	94,200	43,420	46,130	35,730	117,560	54,190	56,690	44,590
	0.337		8.6	22.41	97.1	68,390	31,730	33,580	26,110	101,880	47,270	49,890	38,900	127,130	58,990	62,370	48,540
	0.438		11.1	28.25	92.1	86,180	40,960	42,320	33,700	128,380	61,010	62,870	50,200	160,210	76,140	78,590	62,650
	0.531		13.5	33.55	87.3	102,380	49,810	50,270	40,990	152,510	74,200	74,690	61,060	190,320	92,600	93,360	76,200
	0.674		17.1	40.98	80.1	125,050	63,100	61,400	51,920	186,280	93,990	91,230	77,340	232,460	117,290	114,030	96,510
5 4/7	0.083	141.3	2.1	7.21	137.1	21,990	6,270	1,090	5,160	32,760	9,340	1,090	7,680	40,880	11,650	1,090	9,590

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	0.125		3.2	10.90	134.9	33,250	9,550	3,930	7,860	49,530	14,230	3,940	11,710	61,810	17,760	3,940	14,610
	0.156		4.0	13.54	133.3	41,320	11,940	6,830	9,820	61,550	17,780	7,650	14,630	76,810	22,190	7,780	18,260
	0.188		4.8	16.16	131.7	49,290	14,330	9,730	11,790	73,430	21,340	11,700	17,560	91,630	26,630	12,790	21,910
	0.219		5.6	18.74	130.1	57,170	16,710	13,330	13,750	85,170	24,900	15,830	20,490	106,280	31,070	17,820	25,570
	0.258		6.6	21.92	128.1	66,890	19,700	18,350	16,210	99,630	29,350	23,400	24,150	124,330	36,620	26,350	30,130
	0.281		7.1	23.49	127.1	71,690	21,190	20,850	17,440	106,780	31,570	27,180	25,980	133,260	39,390	31,150	32,420
	0.312		7.9	25.99	125.5	79,290	23,580	24,870	19,400	118,110	35,130	33,240	28,900	147,390	43,830	38,810	36,070
	0.344		8.7	28.45	123.9	86,790	25,970	27,890	21,370	129,290	38,680	39,290	31,830	161,340	48,270	46,480	39,720
	0.375		9.5	30.87	122.3	94,200	28,360	30,270	23,330	140,330	42,240	44,970	34,760	175,110	52,710	54,140	43,370
	0.500		12.7	40.27	115.9	122,880	37,910	39,480	31,190	183,040	56,470	58,660	46,460	228,420	70,470	73,320	57,980
	0.625		15.9	49.16	109.5	150,010	47,460	48,200	39,050	223,460	70,690	71,610	58,170	278,850	88,220	89,510	72,590
	0.750		19.1	57.55	103.1	175,600	57,010	56,420	46,910	261,580	84,920	83,820	69,880	326,430	105,980	104,780	87,200
6 5/8	0.083	168.3	2.1	8.61	164.1	26,260	5,260	640	4,330	39,120	7,840	640	6,450	48,810	9,780	640	8,050
	0.109		2.8	11.43	162.7	34,860	7,020	1,540	5,770	51,930	10,450	1,540	8,600	64,810	13,040	1,540	10,730
	0.125		3.2	13.03	161.9	39,750	8,020	2,310	6,600	59,210	11,950	2,310	9,830	73,890	14,910	2,310	12,270
	0.141		3.6	14.62	161.1	44,610	9,020	3,310	7,420	66,450	13,440	3,310	11,060	82,920	16,770	3,310	13,800
	0.156		4.0	16.21	160.3	49,440	10,020	4,510	8,250	73,650	14,930	4,560	12,290	91,910	18,630	4,560	15,330
	0.172		4.4	17.78	159.5	54,260	11,030	5,720	9,070	80,820	16,420	6,100	13,520	100,860	20,500	6,100	16,870
	0.188		4.8	19.35	158.7	59,040	12,030	6,940	9,900	87,950	17,920	7,800	14,740	109,760	22,360	7,960	18,400
	0.203		5.2	20.91	157.9	63,810	13,030	8,150	10,720	95,050	19,410	9,500	15,970	118,610	24,220	10,060	19,930
	0.219		5.6	22.47	157.1	68,550	14,030	9,370	11,550	102,110	20,900	11,200	17,200	127,430	26,090	12,170	21,470
	0.250		6.4	25.55	155.5	77,960	16,040	12,190	13,200	116,120	23,890	14,610	19,660	144,910	29,810	16,390	24,530
	0.280		7.1	28.22	154.1	86,110	17,790	15,140	14,640	128,270	26,500	18,570	21,810	160,070	33,070	20,230	27,220
	0.312		7.9	31.25	152.5	95,330	19,800	18,510	16,290	142,010	29,490	23,650	24,270	177,220	36,800	26,670	30,280
	0.344		8.7	34.24	150.9	104,470	21,800	21,880	17,940	155,610	32,480	28,730	26,720	194,190	40,530	33,100	33,350
	0.375		9.5	37.20	149.3	113,500	23,810	25,250	19,590	169,070	35,460	33,810	29,180	210,990	44,250	39,540	36,410
	0.432		11.0	42.67	146.3	130,180	27,570	29,480	22,680	193,920	41,060	43,340	33,790	241,990	51,240	51,610	42,160
	0.500		12.7	48.73	142.9	148,670	31,830	33,670	26,190	221,470	47,410	50,030	39,010	276,370	59,160	62,530	48,680
	0.562		14.3	54.30	139.7	165,680	35,830	37,520	29,490	246,800	53,380	55,750	43,920	307,990	66,610	69,690	54,810
	0.625		15.9	59.75	136.5	182,310	39,840	41,290	32,790	271,570	59,350	61,340	48,840	338,890	74,070	76,680	60,950
	0.719		18.3	67.69	131.7	206,520	45,860	46,770	37,740	307,640	68,310	69,490	56,210	383,900	85,250	86,860	70,150
	0.750		19.1	70.27	130.1	214,400	47,860	48,560	39,380	319,370	71,300	72,140	58,670	398,550	88,970	90,180	73,210
	0.864		21.9	79.06	124.5	241,220	54,880	54,630	45,160	359,320	81,750	81,170	67,270	448,400	102,020	101,460	83,950
	0.875		22.2	79.98	123.9	244,020	55,630	55,270	45,780	363,500	82,870	82,110	68,190	453,610	103,420	102,640	85,100
8 5/8	0.125	219.1	3.2	17.04	212.7	51,980	6,160	1,040	5,070	77,430	9,180	1,040	7,550	96,620	11,450	1,040	9,420
	0.156		4.0	21.22	211.1	64,730	7,700	2,040	6,340	96,430	11,470	2,040	9,440	120,330	14,310	2,040	11,780
	0.188		4.8	25.36	209.5	77,390	9,240	3,560	7,600	115,280	13,760	3,560	11,330	143,860	17,180	3,560	14,130
	0.203		5.2	27.43	208.7	83,680	10,010	4,490	8,240	124,660	14,910	4,540	12,270	155,560	18,610	4,540	15,310
	0.219		5.6	29.48	207.9	89,950	10,780	5,420	8,870	133,990	16,060	5,690	13,210	167,210	20,040	5,690	16,490
	0.250		6.4	33.57	206.3	102,420	12,320	7,290	10,140	152,560	18,350	8,290	15,100	190,380	22,900	8,560	18,840
	0.277		7.0	36.61	205.1	111,700	13,470	8,690	11,090	166,390	20,070	10,250	16,520	207,640	25,050	10,990	20,610
	0.312		7.9	41.14	203.3	125,530	15,210	10,790	12,510	186,990	22,650	13,190	18,640	233,350	28,270	14,640	23,260
	0.322		8.2	42.64	202.7	130,110	15,780	11,770	12,990	193,810	23,510	14,170	19,350	241,860	29,340	15,860	24,140
	0.344		8.7	45.14	201.7	137,720	16,750	13,380	13,780	205,150	24,950	15,920	20,530	256,000	31,130	17,880	25,620
	0.375		9.5	49.10	200.1	149,810	18,290	15,970	15,050	223,160	27,240	19,820	22,410	278,480	33,990	21,820	27,970
	0.406		10.3	53.03	198.5	161,800	19,830	18,560	16,310	241,030	29,530	23,720	24,300	300,780	36,860	26,760	30,330
	0.438		11.1	56.93	196.9	173,700	21,370	21,150	17,580	258,750	31,830	27,620	26,190	322,900	39,720	31,710	32,680
	0.500		12.7	64.64	193.7	197,210	24,450	26,320	20,120	293,770	36,420	35,430	29,970	366,600	45,440	41,590	37,390
	0.562		14.3	72.21	190.5	220,340	27,530	29,440	22,650	328,220	41,000	43,240	33,740	409,590	51,170	51,480	42,110
	0.594		15.1	75.96	188.9	231,750	29,070	30,970	23,920	345,230	43,300	46,010	35,630	430,810	54,030	56,420	44,460
	0.625		15.9	79.67	187.3	243,070	30,610	32,480	25,180	362,090	45,590	48,260	37,520	451,860	56,890	60,330	46,820
	0.719		18.3	90.61	182.5	276,460	35,230	36,940	28,990	411,820	52,470	54,890	43,180	513,920	65,480	68,610	53,880
	0.750		19.1	94.19	180.9	287,400	36,770	38,410	30,250	428,110	54,770	57,060	45,070	534,250	68,350	71,320	56,240

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448			
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
	0.812		20.6	100.83	177.9	307,640	39,650	41,110	32,630	458,270	59,070	61,080	48,610	571,880	73,710	76,350	60,650
	0.875		22.2	107.78	174.7	328,870	42,730	43,950	35,160	489,890	63,660	65,290	52,380	611,330	79,440	81,620	65,370
	0.906		23.0	111.22	173.1	339,330	44,270	45,350	36,430	505,480	65,950	67,370	54,270	630,790	82,300	84,210	67,720
	1.000		25.4	121.32	168.3	370,150	48,890	49,460	40,230	551,390	72,830	73,490	59,930	688,090	90,890	91,860	74,790
10 3/4	0.156	273.1	4.0	26.54	265.1	80,980	6,180	1,050	5,080	120,630	9,200	1,050	7,570	150,540	11,480	1,050	9,450
	0.188		4.8	31.76	263.5	96,890	7,410	1,820	6,100	144,330	11,040	1,820	9,090	180,110	13,780	1,820	11,340
	0.203		5.2	34.35	262.7	104,810	8,030	2,320	6,610	156,130	11,960	2,320	9,840	194,830	14,930	2,320	12,280
	0.219		5.6	36.94	261.9	112,700	8,650	2,910	7,120	167,880	12,880	2,910	10,600	209,500	16,080	2,910	13,230
	0.250		6.4	42.09	260.3	128,420	9,880	4,340	8,130	191,290	14,720	4,370	12,110	238,720	18,370	4,370	15,120
	0.279		7.1	46.57	258.9	142,090	10,960	5,650	9,020	211,660	16,330	6,000	13,440	264,130	20,380	6,000	16,770
	0.307		7.8	51.03	257.5	155,690	12,050	6,960	9,910	231,910	17,940	7,830	14,760	289,410	22,390	7,990	18,430
	0.344		8.7	56.72	255.7	173,060	13,440	8,650	11,060	257,800	20,010	10,190	16,470	321,710	24,980	10,910	20,550
	0.365		9.3	60.49	254.5	184,580	14,360	9,770	11,820	274,950	21,390	11,760	17,600	343,110	26,700	12,860	21,970
	0.438		11.1	71.71	250.9	218,800	17,140	14,050	14,110	325,930	25,530	16,920	21,010	406,730	31,870	18,720	26,220
	0.500		12.7	81.55	247.7	248,810	19,610	18,200	16,140	370,630	29,220	23,180	24,040	462,510	36,460	26,080	30,000
	0.562		14.3	91.26	244.5	278,430	22,080	22,350	18,170	414,760	32,900	29,440	27,070	517,580	41,050	34,010	33,780
	0.594		15.1	96.06	242.9	293,100	23,320	24,430	19,190	436,610	34,740	32,580	28,580	544,850	43,350	37,970	35,670
	0.625		15.9	100.84	241.3	307,670	24,550	26,460	20,200	458,320	36,580	35,710	30,100	571,940	45,640	41,940	37,560
	0.719		18.3	114.98	236.5	350,810	28,260	30,170	23,250	522,570	42,100	44,830	34,640	652,120	52,530	53,840	43,230
	0.812		20.6	128.26	231.9	391,330	31,810	33,660	26,180	582,940	47,390	50,010	38,990	727,460	59,140	62,510	48,660
	0.843		21.4	132.82	230.3	405,240	33,050	34,860	27,190	603,660	49,230	51,790	40,510	753,320	61,430	64,730	50,550
	0.875		22.2	137.35	228.7	419,060	34,280	36,040	28,210	624,240	51,070	53,550	42,020	778,990	63,730	66,940	52,440
	0.938		23.8	146.30	225.5	446,390	36,750	38,390	30,240	664,960	54,750	57,040	45,050	829,810	68,320	71,300	56,220
	1.000		25.4	155.14	222.3	473,350	39,230	40,710	32,280	705,110	58,430	60,490	48,080	879,910	72,920	75,610	60,000
	1.125		28.6	172.43	215.9	526,100	44,170	45,250	36,340	783,690	65,790	67,230	54,140	977,970	82,100	84,040	67,560
	1.250		31.8	189.21	209.5	577,300	49,110	49,650	40,410	859,970	73,150	73,770	60,200	1,073,160	91,290	92,220	75,120
12 3/4	0.172	323.9	4.4	34.66	315.1	105,770	5,730	830	4,710	157,550	8,530	830	7,020	196,610	10,650	830	8,760
	0.188		4.8	37.77	314.3	115,240	6,250	1,090	5,140	171,660	9,310	1,090	7,660	214,210	11,620	1,090	9,560
	0.203		5.2	40.86	313.5	124,680	6,770	1,380	5,570	185,730	10,090	1,380	8,300	231,770	12,590	1,380	10,360
	0.219		5.6	43.95	312.7	134,100	7,290	1,730	6,000	199,770	10,860	1,730	8,940	249,290	13,550	1,730	11,150
	0.250		6.4	50.11	311.1	152,880	8,330	2,600	6,860	227,730	12,410	2,600	10,210	284,190	15,490	2,600	12,750
	0.281		7.1	55.46	309.7	169,220	9,240	3,560	7,610	252,080	13,770	3,560	11,330	314,570	17,190	3,560	14,140
	0.312		7.9	61.56	308.1	187,820	10,290	4,820	8,460	279,780	15,320	4,930	12,610	349,140	19,120	4,930	15,730
	0.330		8.4	65.35	307.1	199,390	10,940	5,610	9,000	297,010	16,290	5,950	13,410	370,650	20,330	5,950	16,730
	0.344		8.7	67.62	306.5	206,310	11,330	6,090	9,320	307,330	16,870	6,610	13,890	383,520	21,060	6,620	17,330
	0.375		9.5	73.65	304.9	224,710	12,370	7,350	10,180	334,740	18,430	8,380	15,160	417,720	22,990	8,670	18,920
	0.406		10.3	79.65	303.3	243,010	13,410	8,620	11,040	362,000	19,980	10,150	16,440	451,750	24,930	10,860	20,510
	0.438		11.1	85.61	301.7	261,220	14,450	9,880	11,890	389,120	21,530	11,920	17,720	485,590	26,870	13,050	22,110
	0.500		12.7	97.45	298.5	297,350	16,540	13,030	13,610	442,940	24,630	15,450	20,270	552,740	30,740	17,440	25,290
	0.562		14.3	109.17	295.3	333,090	18,620	16,530	15,320	496,170	27,740	20,660	22,820	619,180	34,610	22,890	28,480
	0.625		15.9	120.76	292.1	368,440	20,700	20,030	17,040	548,840	30,840	25,950	25,380	684,900	38,490	29,580	31,670
	0.688		17.5	132.22	288.9	403,410	22,790	23,530	18,750	600,930	33,940	31,230	27,930	749,910	42,360	36,270	34,860
	0.750		19.1	143.55	285.7	437,990	24,870	26,780	20,460	652,450	37,050	36,510	30,480	814,200	46,230	42,950	38,040
	0.812		20.6	154.06	282.7	470,070	26,820	28,740	22,070	700,220	39,960	41,460	32,880	873,820	49,860	49,220	41,030
	0.843		21.4	159.62	281.1	487,030	27,860	29,780	22,930	725,500	41,510	44,100	34,160	905,360	51,800	52,570	42,620
	0.875		22.2	165.15	279.5	503,900	28,910	30,810	23,790	750,630	43,060	45,780	35,430	936,720	53,740	55,910	44,220
	0.938		23.8	176.12	276.3	537,360	30,990	32,860	25,500	800,460	46,160	48,820	37,990	998,900	57,610	61,020	47,400
	1.000		25.4	186.96	273.1	570,420	33,070	34,880	27,210	849,720	49,270	51,820	40,540	1,060,370	61,480	64,780	50,590
	1.062		27.0	197.67	269.9	603,110	35,160	36,880	28,930	898,400	52,370	54,790	43,090	1,121,130	65,350	68,490	53,780
	1.125		28.6	208.25	266.7	635,400	37,240	38,850	30,640	946,510	55,470	57,720	45,650	1,181,160	69,230	72,160	56,960
	1.250		31.8	229.04	260.3	698,840	41,410	42,730	34,070	1,041,010	61,680	63,490	50,750	1,299,090	76,970	79,360	63,340
14	0.188	355.6	4.8	41.52	346.0	126,680	5,690	820	4,680	188,710	8,480	820	6,980	235,490	10,580	820	8,710

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448			
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
	0.203		5.2	44.93	345.2	137,080	6,170	1,040	5,070	204,200	9,190	1,040	7,560	254,830	11,460	1,040	9,430
	0.210		5.3	45.78	345.0	139,680	6,290	1,100	5,170	208,070	9,360	1,100	7,700	259,650	11,690	1,100	9,620
	0.219		5.6	48.33	344.4	147,460	6,640	1,310	5,470	219,660	9,890	1,310	8,140	274,120	12,350	1,310	10,160
	0.250		6.4	55.11	342.8	168,140	7,590	1,960	6,250	250,470	11,310	1,960	9,300	312,560	14,110	1,960	11,610
	0.281		7.1	61.01	341.4	186,160	8,420	2,680	6,930	277,310	12,540	2,680	10,320	346,050	15,650	2,680	12,880
	0.312		7.9	67.73	339.8	206,660	9,370	3,710	7,710	307,840	13,960	3,710	11,480	384,160	17,420	3,710	14,330
	0.344		8.7	74.42	338.2	227,060	10,320	4,860	8,490	338,240	15,370	4,980	12,650	422,090	19,180	4,980	15,780
	0.375		9.5	81.07	336.6	247,370	11,270	6,010	9,270	368,490	16,780	6,510	13,810	459,840	20,940	6,520	17,230
	0.406		10.3	87.70	335.0	267,580	12,220	7,170	10,050	398,590	18,200	8,120	14,970	497,410	22,710	8,340	18,690
	0.438		11.1	94.29	333.4	287,690	13,160	8,320	10,830	428,560	19,610	9,730	16,140	534,800	24,470	10,340	20,140
	0.469		11.9	100.85	331.8	307,710	14,110	9,470	11,610	458,380	21,020	11,340	17,300	572,010	26,240	12,340	21,590
	0.500		12.7	107.38	330.2	327,640	15,060	10,620	12,390	488,050	22,440	12,950	18,460	609,050	28,000	14,340	23,040
	0.562		14.3	120.35	327.0	367,190	16,960	13,740	13,960	546,980	25,260	16,460	20,790	682,580	31,530	18,330	25,940
	0.594		15.1	126.78	325.4	386,820	17,910	15,340	14,740	576,220	26,680	18,860	21,950	719,080	33,290	20,610	27,390
	0.625		15.9	133.18	323.8	406,360	18,860	16,930	15,520	605,330	28,090	21,270	23,110	755,390	35,060	23,650	28,850
	0.688		17.5	145.90	320.6	445,150	20,760	20,120	17,080	663,100	30,920	26,080	25,440	827,490	38,580	29,740	31,750
	0.750		19.1	158.48	317.4	483,550	22,650	23,310	18,640	720,300	33,740	30,890	27,770	898,870	42,110	35,840	34,650
	0.812		20.6	170.17	314.4	519,200	24,430	26,300	20,100	773,410	36,390	35,400	29,950	965,140	45,420	41,550	37,370
	0.875		22.2	182.51	311.2	556,850	26,330	28,250	21,670	829,500	39,220	40,210	32,270	1,035,140	48,940	47,640	40,270
	0.938		23.8	194.72	308.0	594,120	28,230	30,140	23,230	885,010	42,050	44,780	34,600	1,104,420	52,470	53,730	43,180
	1.000		25.4	206.81	304.8	631,000	30,130	32,010	24,790	939,960	44,880	47,560	36,930	1,172,980	56,000	59,450	46,080
	1.062		27.0	218.77	301.6	667,500	32,020	33,860	26,350	994,320	47,700	50,310	39,250	1,240,830	59,530	62,890	48,980
	1.094		27.8	224.71	300.0	685,600	32,970	34,780	27,130	1,021,290	49,120	51,680	40,410	1,274,480	61,290	64,590	50,430
	1.125		28.6	230.61	298.4	703,610	33,920	35,700	27,910	1,048,120	50,530	53,030	41,580	1,307,960	63,060	66,290	51,890
	1.250		31.8	253.90	292.0	774,680	37,720	39,300	31,030	1,153,990	56,180	58,390	46,230	1,440,070	70,110	72,990	57,690
16	0.188	406.4	4.8	47.53	396.8	145,030	4,980	550	4,100	216,040	7,420	550	6,110	269,600	9,260	550	7,620
	0.203		5.2	51.44	396.0	156,960	5,400	700	4,440	233,810	8,040	700	6,610	291,770	10,030	700	8,250
	0.219		5.6	55.34	395.2	168,860	5,810	870	4,780	251,540	8,660	870	7,120	313,900	10,800	870	8,890
	0.250		6.4	63.12	393.6	192,600	6,640	1,310	5,470	286,900	9,890	1,310	8,140	358,030	12,350	1,310	10,160
	0.281		7.1	69.91	392.2	213,290	7,370	1,790	6,060	317,730	10,980	1,790	9,030	396,500	13,700	1,790	11,270
	0.312		7.9	77.63	390.6	236,850	8,200	2,470	6,750	352,820	12,210	2,470	10,050	440,290	15,240	2,470	12,540
	0.344		8.7	85.32	389.0	260,310	9,030	3,320	7,430	387,770	13,450	3,320	11,070	483,900	16,780	3,320	13,810
	0.375		9.5	92.97	387.4	283,680	9,860	4,310	8,110	422,570	14,690	4,340	12,080	527,330	18,330	4,340	15,080
	0.406		10.3	100.60	385.8	306,950	10,690	5,310	8,800	457,230	15,920	5,550	13,100	570,590	19,870	5,550	16,350
	0.438		11.1	108.20	384.2	330,120	11,520	6,320	9,480	491,750	17,160	6,940	14,120	613,660	21,410	6,970	17,620
	0.469		11.9	115.76	382.6	353,190	12,350	7,330	10,160	526,130	18,400	8,350	15,140	656,560	22,960	8,620	18,890
	0.500		12.7	123.29	381.0	376,170	13,180	8,340	10,850	560,360	19,630	9,750	16,160	699,280	24,500	10,370	20,160
	0.562		14.3	138.26	377.8	421,840	14,840	10,350	12,210	628,390	22,110	12,570	18,190	784,180	27,590	13,870	22,700
	0.625		15.9	153.10	374.6	467,130	16,500	12,970	13,580	695,850	24,580	15,390	20,230	868,360	30,670	17,370	25,240
	0.657		16.7	160.47	373.0	489,630	17,330	14,360	14,260	729,360	25,820	17,400	21,240	910,180	32,220	19,110	26,510
	0.688		17.5	167.82	371.4	512,030	18,160	15,760	14,940	762,730	27,050	19,500	22,260	951,820	33,760	21,420	27,780
	0.750		19.1	182.41	368.2	556,540	19,820	18,550	16,310	829,040	29,530	23,710	24,300	1,034,570	36,850	26,750	30,320
	0.812		20.6	195.97	365.2	597,930	21,380	21,170	17,590	890,690	31,850	27,660	26,200	1,111,500	39,740	31,740	32,700
	0.843		21.4	203.16	363.6	619,860	22,210	22,560	18,270	923,360	33,080	29,760	27,220	1,152,270	41,280	34,410	33,970
	0.875		22.2	210.31	362.0	641,700	23,040	23,960	18,960	955,890	34,320	31,860	28,240	1,192,860	42,830	37,070	35,240
	0.938		23.8	224.53	358.8	685,080	24,700	26,610	20,320	1,020,510	36,790	36,070	30,270	1,273,510	45,910	42,400	37,780
	1.000		25.4	238.63	355.6	728,080	26,360	28,280	21,690	1,084,560	39,270	40,280	32,310	1,353,440	49,000	47,730	40,320
	1.031		26.2	245.63	354.0	749,430	27,190	29,110	22,370	1,116,380	40,500	42,390	33,330	1,393,140	50,540	50,400	41,590
	1.062		27.0	252.59	352.4	770,690	28,020	29,930	23,060	1,148,040	41,740	44,470	34,350	1,432,650	52,090	53,060	42,860
	1.125		28.6	266.43	349.2	812,920	29,680	31,570	24,420	1,210,950	44,210	46,910	36,380	1,511,150	55,170	58,390	45,400
	1.188		30.2	280.15	346.0	854,760	31,340	33,200	25,790	1,273,280	46,690	49,330	38,420	1,588,930	58,260	61,660	47,940
	1.220		31.0	286.96	344.4	875,540	32,170	34,010	26,470	1,304,230	47,920	50,520	39,430	1,627,560	59,800	63,160	49,210
	1.250		31.8	293.73	342.8	896,220	33,000	34,810	27,160	1,335,030	49,160	51,720	40,450	1,666,000	61,350	64,650	50,480

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72

Safety Factor

*MAOP - Maximum Allowable Operating Pressure

Labels					241				359				448				
OD	Wall Thickness	OD	Wall Thickness	Linear Mass	ID	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP
(in)	(in)	(mm)	(mm)	(kg/m)		(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)
18	0.188	457	4.8	53.52	447.4	163,300	4,430	380	3,650	243,260	6,600	380	5,430	303,570	8,230	380	6,780
	0.203		5.2	57.93	446.6	176,750	4,800	490	3,950	263,300	7,150	490	5,880	328,570	8,920	490	7,340
	0.219		5.6	62.33	445.8	190,180	5,170	610	4,250	283,300	7,700	610	6,330	353,530	9,610	610	7,910
	0.250		6.4	71.11	444.2	216,970	5,910	910	4,860	323,200	8,800	910	7,240	403,320	10,980	910	9,030
	0.281		7.1	78.77	442.8	240,320	6,550	1,250	5,390	357,990	9,760	1,250	8,030	446,740	12,180	1,250	10,020
	0.312		7.9	87.48	441.2	266,930	7,290	1,730	6,000	397,620	10,860	1,730	8,940	496,190	13,550	1,730	11,150
	0.344		8.7	96.17	439.6	293,430	8,030	2,320	6,610	437,100	11,960	2,320	9,840	545,470	14,930	2,320	12,280
	0.375		9.5	104.83	438.0	319,840	8,770	3,030	7,210	476,450	13,060	3,030	10,750	594,560	16,300	3,030	13,410
	0.406		10.3	113.45	436.4	346,160	9,510	3,880	7,820	515,640	14,160	3,880	11,650	643,480	17,670	3,880	14,540
	0.438		11.1	122.04	434.8	372,370	10,240	4,770	8,430	554,700	15,260	4,870	12,560	692,210	19,040	4,870	15,670
	0.469		11.9	130.61	433.2	398,500	10,980	5,670	9,040	593,610	16,360	6,030	13,460	740,770	20,410	6,030	16,800
	0.500		12.7	139.14	431.6	424,520	11,720	6,560	9,640	632,380	17,460	7,280	14,370	789,150	21,790	7,350	17,930
	0.562		14.3	156.10	428.4	476,280	13,200	8,360	10,860	709,480	19,660	9,780	16,180	885,370	24,530	10,410	20,190
	0.625		15.9	172.94	425.2	527,660	14,670	10,150	12,070	786,020	21,860	12,290	17,990	980,880	27,280	13,520	22,450
	0.688		17.5	189.65	422.0	578,650	16,150	12,380	13,290	861,970	24,060	14,800	19,800	1,075,670	30,020	16,630	24,700
	0.750		19.1	206.24	418.8	629,260	17,630	14,860	14,500	937,360	26,260	18,150	21,610	1,169,740	32,770	19,740	26,960
	0.812		20.6	221.67	415.8	676,350	19,010	17,190	15,640	1,007,510	28,320	21,660	23,300	1,257,280	35,340	24,140	29,080
	0.875		22.2	238.01	412.6	726,210	20,490	19,670	16,860	1,081,780	30,520	25,400	25,110	1,349,970	38,080	28,880	31,340
	0.938		23.8	254.23	409.4	775,680	21,960	22,150	18,070	1,155,480	32,720	29,140	26,920	1,441,940	40,830	33,620	33,600
	1.000		25.4	270.32	406.2	824,770	23,440	24,630	19,290	1,228,600	34,920	32,880	28,730	1,533,190	43,570	38,360	35,860
	1.062		27.0	286.28	403.0	873,480	24,920	26,830	20,500	1,301,150	37,120	36,630	30,540	1,623,730	46,320	43,100	38,110
	1.125		28.6	302.12	399.8	921,800	26,390	28,310	21,720	1,373,130	39,320	40,370	32,350	1,713,550	49,060	47,850	40,370
	1.156		29.4	309.99	398.2	945,810	27,130	29,050	22,330	1,408,910	40,420	42,240	33,260	1,758,190	50,440	50,220	41,500
	1.188		30.2	317.83	396.6	969,730	27,870	29,790	22,930	1,444,540	41,520	44,110	34,160	1,802,650	51,810	52,590	42,630
	1.250		31.8	333.41	393.4	1,017,280	29,350	31,250	24,150	1,515,360	43,720	46,420	35,970	1,891,040	54,550	57,330	44,890
20	0.188	508	4.8	59.56	498.4	181,720	3,990	280	3,280	270,690	5,940	280	4,880	337,800	7,410	280	6,100
	0.219		5.6	69.37	496.8	211,670	4,650	440	3,830	315,310	6,930	440	5,700	393,480	8,640	440	7,110
	0.250		6.4	79.16	495.2	241,520	5,310	660	4,370	359,780	7,910	660	6,510	448,970	9,880	660	8,130
	0.281		7.1	87.69	493.8	267,560	5,890	910	4,850	398,570	8,780	910	7,230	497,380	10,960	910	9,020
	0.312		7.9	97.42	492.2	297,240	6,560	1,260	5,400	442,770	9,770	1,260	8,040	552,540	12,190	1,260	10,030
	0.344		8.7	107.11	490.6	326,810	7,220	1,680	5,940	486,830	10,760	1,680	8,850	607,520	13,430	1,680	11,050
	0.375		9.5	116.77	489.0	356,290	7,890	2,200	6,490	530,740	11,750	2,200	9,670	662,320	14,660	2,200	12,060
	0.406		10.3	126.41	487.4	385,680	8,550	2,810	7,040	574,520	12,740	2,810	10,480	716,940	15,900	2,810	13,080
	0.438		11.1	136.00	485.8	414,960	9,220	3,530	7,580	618,140	13,730	3,530	11,300	771,390	17,130	3,530	14,100
	0.469		11.9	145.57	484.2	444,160	9,880	4,330	8,130	661,630	14,720	4,360	12,110	825,650	18,370	4,360	15,110
	0.500		12.7	155.11	482.6	473,250	10,540	5,140	8,680	704,970	15,710	5,320	12,920	879,740	19,600	5,320	16,130
	0.562		14.3	174.08	479.4	531,150	11,870	6,750	9,770	791,220	17,680	7,530	14,550	987,370	22,070	7,640	18,160
	0.594		15.1	183.52	477.8	559,960	12,540	7,550	10,320	834,130	18,670	8,660	15,370	1,040,920	23,300	9,020	19,180
	0.625		15.9	192.93	476.2	588,670	13,200	8,360	10,860	876,890	19,660	9,790	16,180	1,094,290	24,540	10,420	20,190
	0.688		17.5	211.66	473.0	645,800	14,530	9,970	11,960	962,000	21,640	12,040	17,810	1,200,490	27,010	13,210	22,220
	0.750		19.1	230.26	469.8	702,540	15,860	11,890	13,050	1,046,530	23,620	14,300	19,440	1,305,970	29,480	16,010	24,260
	0.812		20.6	247.58	466.8	755,390	17,100	13,980	14,070	1,125,250	25,480	16,820	20,960	1,404,210	31,790	18,630	26,160
	0.875		22.2	265.93	463.6	811,390	18,430	16,210	15,170	1,208,670	27,460	20,180	22,590	1,508,310	34,260	22,280	28,190
	0.938		23.8	284.16	460.4	867,000	19,760	18,450	16,260	1,291,510	29,430	23,550	24,220	1,611,690	36,730	26,550	30,220
	1.000		25.4	302.26	457.2	922,230	21,090	20,680	17,350	1,373,780	31,410	26,920	25,850	1,714,360	39,200	30,810	32,260
	1.031		26.2	311.26	455.6	949,700	21,750	21,790	17,900	1,414,700	32,400	28,600	26,660	1,765,420	40,430	32,940	33,270
	1.062		27.0	320.23	454.0	977,080	22,420	22,910	18,450	1,455,480	33,390	30,290	27,480	1,816,310	41,670	35,070	34,290
	1.125		28.6	338.08	450.8	1,031,530	23,740	25,140	19,540	1,536,600	35,370	33,650	29,100	1,917,540	44,140	39,340	36,320
	1.188		30.2	355.81	447.6	1,085,610	25,070	26,990	20,630	1,617,150	37,350	37,020	30,730	2,018,060	46,610	43,600	38,350
	1.250		31.8	373.40	444.4	1,139,290	26,400	28,320	21,720	1,697,120	39,330	40,390	32,360	2,117,860	49,080	47,870	40,380
	1.312		33.3	389.78	441.4	1,189,280	27,650	29,560	22,750	1,771,580	41,180	43,540	33,890	2,210,770	51,390	51,860	42,290
	1.375		34.9	407.13	438.2	1,242,220	28,970	30,880	23,840	1,850,440	43,160	45,880	35,520	2,309,180	53,860	56,130	44,320
22	0.219	559	5.6	76.42	547.8	233,160	4,230	330	3,480	347,320	6,290	330	5,180	433,420	7,850	330	6,460

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels					241				359				448				
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
	0.250		6.4	87.21	546.2	266,080	4,830	500	3,970	396,360	7,190	500	5,920	494,620	8,980	500	7,390
	0.281		7.1	96.62	544.8	294,810	5,360	680	4,410	439,150	7,980	680	6,570	548,020	9,960	680	8,190
	0.312		7.9	107.35	543.2	327,550	5,960	940	4,900	487,930	8,880	940	7,310	608,890	11,080	940	9,120
	0.344		8.7	118.05	541.6	360,200	6,560	1,260	5,400	536,560	9,780	1,260	8,050	669,570	12,200	1,260	10,040
	0.375		9.5	128.72	540.0	392,740	7,170	1,640	5,900	585,040	10,680	1,640	8,790	730,080	13,320	1,640	10,960
	0.406		10.3	139.36	538.4	425,200	7,770	2,100	6,390	633,390	11,580	2,100	9,530	790,410	14,450	2,100	11,890
	0.438		11.1	149.96	536.8	457,560	8,370	2,640	6,890	681,590	12,480	2,640	10,270	850,560	15,570	2,640	12,810
	0.469		11.9	160.54	535.2	489,820	8,980	3,260	7,390	729,640	13,370	3,260	11,010	910,530	16,690	3,260	13,730
	0.500		12.7	171.08	533.6	521,980	9,580	3,970	7,880	777,560	14,270	3,970	11,740	970,320	17,810	3,970	14,660
	0.562		14.3	192.07	530.4	586,020	10,790	5,430	8,880	872,950	16,070	5,710	13,220	1,089,370	20,060	5,710	16,500
	0.625		15.9	212.93	527.2	649,680	12,000	6,900	9,870	967,770	17,870	7,750	14,700	1,207,690	22,300	7,890	18,350
	0.688		17.5	233.67	524.0	712,940	13,200	8,360	10,860	1,062,020	19,670	9,790	16,180	1,325,310	24,540	10,420	20,200
	0.750		19.1	254.28	520.8	775,830	14,410	9,830	11,860	1,155,700	21,470	11,840	17,660	1,442,210	26,790	12,960	22,040
	0.812		20.6	273.48	517.8	834,430	15,540	11,360	12,790	1,242,990	23,150	13,760	19,050	1,551,150	28,890	15,350	23,770
	0.875		22.2	293.85	514.6	896,570	16,750	13,390	13,780	1,335,560	24,950	15,920	20,530	1,666,660	31,140	17,890	25,620
	0.938		23.8	314.09	511.4	958,320	17,960	15,420	14,780	1,427,540	26,750	18,980	22,010	1,781,450	33,380	20,760	27,470
	1.000		25.4	334.20	508.2	1,019,690	19,160	17,440	15,770	1,518,960	28,550	22,040	23,490	1,895,530	35,620	24,630	29,310
	1.062		27.0	354.19	505.0	1,080,670	20,370	19,470	16,760	1,609,800	30,340	25,100	24,970	2,008,890	37,870	28,510	31,160
	1.125		28.6	374.05	501.8	1,141,270	21,580	21,500	17,760	1,700,070	32,140	28,160	26,450	2,121,530	40,110	32,380	33,010
	1.188		30.2	393.78	498.6	1,201,480	22,790	23,530	18,750	1,789,760	33,940	31,220	27,930	2,233,460	42,360	36,260	34,850
	1.250		31.8	413.39	495.4	1,261,310	23,990	25,560	19,740	1,878,880	35,740	34,280	29,410	2,344,680	44,600	40,130	36,700
	1.312		33.3	431.66	492.4	1,317,050	25,120	27,040	20,670	1,961,910	37,430	37,150	30,800	2,448,290	46,700	43,770	38,430
	1.375		34.9	451.02	489.2	1,376,130	26,330	28,250	21,670	2,049,920	39,220	40,210	32,280	2,558,110	48,950	47,640	40,280
	1.438		36.5	470.26	486.0	1,434,820	27,540	29,460	22,660	2,137,350	41,020	43,270	33,750	2,667,220	51,190	51,520	42,120
	1.500		38.1	489.37	482.8	1,493,130	28,750	30,650	23,650	2,224,210	42,820	45,540	35,230	2,775,620	53,440	55,390	43,970
24	0.219	610	5.6	83.46	598.8	254,640	3,870	260	3,190	379,320	5,770	260	4,750	473,360	7,200	260	5,920
	0.250		6.4	95.26	597.2	290,640	4,420	380	3,640	432,940	6,590	380	5,420	540,270	8,230	380	6,770
	0.281		7.1	105.55	595.8	322,050	4,910	520	4,040	479,730	7,310	520	6,020	598,670	9,130	520	7,510
	0.312		7.9	117.29	594.2	357,860	5,460	720	4,490	533,080	8,140	720	6,700	665,240	10,150	720	8,350
	0.344		8.7	128.99	592.6	393,580	6,020	970	4,950	586,280	8,960	970	7,370	731,630	11,180	970	9,200
	0.375		9.5	140.67	591.0	429,200	6,570	1,260	5,400	639,340	9,780	1,260	8,050	797,840	12,210	1,260	10,050
	0.406		10.3	152.31	589.4	464,720	7,120	1,610	5,860	692,260	10,610	1,610	8,730	863,880	13,240	1,610	10,890
	0.438		11.1	163.92	587.8	500,150	7,670	2,020	6,310	745,030	11,430	2,020	9,410	929,730	14,270	2,020	11,740
	0.469		11.9	175.50	586.2	535,480	8,230	2,500	6,770	797,660	12,260	2,500	10,080	995,410	15,290	2,500	12,590
	0.500		12.7	187.05	584.6	570,710	8,780	3,050	7,230	850,140	13,080	3,050	10,760	1,060,910	16,320	3,050	13,430
	0.562		14.3	210.05	581.4	640,890	9,890	4,340	8,140	954,690	14,730	4,370	12,120	1,191,360	18,380	4,370	15,120
	0.625		15.9	232.93	578.2	710,680	10,990	5,680	9,050	1,058,650	16,380	6,040	13,470	1,321,100	20,440	6,040	16,820
	0.688		17.5	255.67	575.0	780,090	12,100	7,020	9,960	1,162,050	18,020	7,920	14,830	1,450,130	22,490	8,100	18,510
	0.750		19.1	278.30	571.8	849,120	13,210	8,370	10,870	1,264,860	19,670	9,800	16,190	1,578,440	24,550	10,430	20,200
	0.812		20.6	299.39	568.8	913,480	14,240	9,620	11,720	1,360,740	21,220	11,560	17,460	1,698,080	26,480	12,610	21,790
	0.875		22.2	321.77	565.6	981,750	15,350	11,030	12,630	1,462,440	22,860	13,440	18,810	1,825,000	28,530	14,940	23,480
	0.938		23.8	344.02	562.4	1,049,640	16,460	12,890	13,540	1,563,580	24,510	15,310	20,170	1,951,210	30,590	17,270	25,170
	0.969		24.6	355.10	560.8	1,083,450	17,010	13,820	14,000	1,613,930	25,340	16,580	20,850	2,014,040	31,620	18,430	26,020
	1.000		25.4	366.14	559.2	1,117,150	17,560	14,750	14,450	1,664,140	26,160	17,980	21,530	2,076,700	32,650	19,600	26,860
	1.062		27.0	388.14	556.0	1,184,270	18,670	16,610	15,360	1,764,120	27,810	20,780	22,880	2,201,470	34,700	23,040	28,550
	1.125		28.6	410.02	552.8	1,251,010	19,770	18,470	16,270	1,863,540	29,460	23,590	24,240	2,325,530	36,760	26,590	30,250
	1.188		30.2	431.76	549.6	1,317,360	20,880	20,330	17,180	1,962,370	31,100	26,390	25,590	2,448,870	38,810	30,140	31,940
	1.250		31.8	453.38	546.4	1,383,330	21,990	22,190	18,090	2,060,640	32,750	29,200	26,950	2,571,490	40,870	33,700	33,630
	1.312		33.3	473.54	543.4	1,444,820	23,020	23,930	18,940	2,152,240	34,300	31,830	28,220	2,685,810	42,800	37,020	35,220
	1.375		34.9	494.91	540.2	1,510,040	24,130	25,790	19,860	2,249,390	35,940	34,630	29,580	2,807,040	44,860	40,580	36,910
	1.438		36.5	516.16	537.0	1,574,870	25,240	27,150	20,770	2,345,970	37,590	37,430	30,930	2,927,570	46,910	44,130	38,600
	1.500		38.1	537.28	533.8	1,639,320	26,340	28,260	21,680	2,441,980	39,240	40,240	32,290	3,047,370	48,970	47,680	40,290
	1.562		39.7	558.28	530.6	1,703,390	27,450	29,370	22,590	2,537,410	40,890	43,040	33,640	3,166,460	51,020	51,230	41,990

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels					241				359				448				
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
26	0.219	660	5.6	90.36	648.8	275,710	3,580	200	2,940	410,700	5,330	200	4,390	512,520	6,650	200	5,470
	0.250		6.4	103.15	647.2	314,710	4,090	300	3,370	468,800	6,090	300	5,010	585,020	7,600	300	6,260
	0.281		7.1	114.30	645.8	348,760	4,540	410	3,730	519,520	6,760	410	5,560	648,310	8,430	410	6,940
	0.312		7.9	127.03	644.2	387,580	5,050	570	4,150	577,350	7,520	570	6,190	720,480	9,380	570	7,720
	0.344		8.7	139.72	642.6	426,300	5,560	760	4,570	635,030	8,280	760	6,810	792,470	10,330	760	8,500
	0.375		9.5	152.38	641.0	464,930	6,070	990	5,000	692,580	9,040	990	7,440	864,270	11,280	990	9,290
	0.406		10.3	165.01	639.4	503,470	6,580	1,270	5,420	749,980	9,800	1,270	8,070	935,900	12,240	1,270	10,070
	0.438		11.1	177.61	637.8	541,900	7,090	1,590	5,840	807,230	10,570	1,590	8,690	1,007,350	13,190	1,590	10,850
	0.469		11.9	190.17	636.2	580,240	7,600	1,970	6,260	864,340	11,330	1,970	9,320	1,078,620	14,140	1,970	11,630
	0.500		12.7	202.71	634.6	618,480	8,120	2,400	6,680	921,310	12,090	2,400	9,950	1,149,710	15,090	2,400	12,410
	0.562		14.3	227.68	631.4	694,680	9,140	3,440	7,520	1,034,820	13,610	3,440	11,200	1,291,360	16,990	3,440	13,980
	0.625		15.9	252.53	628.2	770,490	10,160	4,670	8,360	1,147,750	15,140	4,670	12,450	1,432,290	18,890	4,670	15,540
	0.688		17.5	277.25	625.0	845,920	11,180	5,910	9,200	1,260,110	16,660	5,910	13,710	1,572,500	20,790	5,910	17,110
	0.750		19.1	301.84	621.8	920,960	12,210	7,150	10,040	1,371,890	18,180	7,150	14,960	1,712,000	22,690	7,150	18,670
	0.812		20.6	324.79	618.8	990,970	13,160	8,320	10,830	1,476,170	19,610	8,320	16,140	1,842,130	24,470	8,320	20,140
	0.875		22.2	349.14	615.6	1,065,260	14,190	9,560	11,670	1,586,840	21,130	9,560	17,390	1,980,240	26,370	9,560	21,700
	0.938		23.8	373.36	612.4	1,139,170	15,210	10,800	12,510	1,696,940	22,660	10,800	18,640	2,117,630	28,270	10,800	23,260
	1.000		25.4	397.46	609.2	1,212,700	16,230	12,520	13,360	1,806,470	24,180	12,520	19,900	2,254,310	30,170	12,520	24,830
	1.250		31.8	492.59	596.4	1,502,950	20,320	19,390	16,720	2,238,830	30,270	19,390	24,910	2,793,860	37,770	19,390	31,080
28	0.219	711	5.6	97.41	699.8	297,200	3,320	160	2,730	442,710	4,950	160	4,070	552,460	6,170	160	5,080
	0.250		6.4	111.19	698.2	339,270	3,800	240	3,120	505,380	5,660	240	4,650	630,670	7,060	240	5,810
	0.281		7.1	123.23	696.8	376,000	4,210	330	3,470	560,100	6,270	330	5,160	698,960	7,830	330	6,440
	0.312		7.9	136.96	695.2	417,890	4,690	450	3,860	622,500	6,980	450	5,740	776,830	8,710	450	7,170
	0.344		8.7	150.66	693.6	459,690	5,160	610	4,250	684,760	7,690	610	6,330	854,520	9,590	610	7,890
	0.375		9.5	164.33	692.0	501,380	5,640	790	4,640	746,880	8,390	790	6,910	932,030	10,480	790	8,620
	0.406		10.3	177.96	690.4	542,990	6,110	1,010	5,030	808,850	9,100	1,010	7,490	1,009,370	11,360	1,010	9,350
	0.438		11.1	191.57	688.8	584,490	6,580	1,270	5,420	870,670	9,810	1,270	8,070	1,086,520	12,240	1,270	10,070
	0.469		11.9	205.14	687.2	625,900	7,060	1,570	5,810	932,360	10,520	1,570	8,650	1,163,500	13,120	1,570	10,800
	0.500		12.7	218.68	685.6	667,210	7,530	1,910	6,200	993,900	11,220	1,910	9,230	1,240,300	14,000	1,910	11,520
	0.562		14.3	245.66	682.4	749,550	8,480	2,740	6,980	1,116,550	12,640	2,740	10,400	1,393,360	15,770	2,740	12,970
	0.625		15.9	272.52	679.2	831,500	9,430	3,790	7,760	1,238,630	14,050	3,790	11,560	1,545,700	17,530	3,790	14,430
	0.688		17.5	299.26	676.0	913,070	10,380	4,940	8,540	1,360,130	15,460	4,940	12,720	1,697,320	19,300	4,940	15,880
	0.750		19.1	325.86	672.8	994,250	11,330	6,090	9,320	1,481,060	16,880	6,090	13,890	1,848,230	21,060	6,090	17,330
	0.812		20.6	350.69	669.8	1,070,010	12,220	7,170	10,050	1,593,910	18,200	7,170	14,980	1,989,060	22,720	7,170	18,690
	0.875		22.2	377.06	666.6	1,150,440	13,170	8,320	10,840	1,713,730	19,620	8,320	16,140	2,138,580	24,480	8,320	20,140
	0.938		23.8	403.29	663.4	1,230,490	14,120	9,470	11,620	1,832,980	21,030	9,470	17,300	2,287,390	26,240	9,470	21,590
	1.000		25.4	429.40	660.2	1,310,160	15,070	10,620	12,400	1,951,650	22,440	10,620	18,470	2,435,480	28,010	10,620	23,050
	1.250		31.8	532.58	647.4	1,624,970	18,860	16,940	15,520	2,420,590	28,100	16,940	23,120	3,020,680	35,060	16,940	28,850
30	0.219	762	5.6	104.45	750.8	318,680	3,100	130	2,550	474,720	4,620	130	3,800	592,410	5,760	130	4,740
	0.250		6.4	119.24	749.2	363,820	3,540	200	2,910	541,960	5,280	200	4,340	676,320	6,580	200	5,420
	0.281		7.1	132.16	747.8	403,240	3,930	270	3,230	600,680	5,850	270	4,820	749,600	7,300	270	6,010
	0.312		7.9	146.90	746.2	448,200	4,370	370	3,600	667,660	6,510	370	5,360	833,180	8,130	370	6,690
	0.344		8.7	161.60	744.6	493,070	4,820	490	3,960	734,490	7,170	490	5,900	916,570	8,950	490	7,370
	0.375		9.5	176.27	743.0	537,840	5,260	640	4,330	801,170	7,830	640	6,450	999,790	9,770	640	8,040
	0.406		10.3	190.92	741.4	582,510	5,700	820	4,690	867,720	8,490	820	6,990	1,082,830	10,600	820	8,720
	0.438		11.1	205.52	739.8	627,080	6,140	1,030	5,060	934,120	9,150	1,030	7,530	1,165,700	11,420	1,030	9,400
	0.469		11.9	220.10	738.2	671,560	6,590	1,270	5,420	1,000,380	9,810	1,270	8,070	1,248,380	12,240	1,270	10,070
	0.500		12.7	234.65	736.6	715,940	7,030	1,550	5,780	1,066,490	10,470	1,550	8,620	1,330,880	13,070	1,550	10,750
	0.562		14.3	263.65	733.4	804,420	7,910	2,220	6,510	1,198,290	11,790	2,220	9,700	1,495,350	14,710	2,220	12,110
	0.625		15.9	292.52	730.2	892,510	8,800	3,070	7,240	1,329,510	13,110	3,070	10,790	1,659,110	16,360	3,070	13,460
	0.688		17.5	321.26	727.0	980,220	9,690	4,100	7,970	1,460,160	14,430	4,100	11,870	1,822,150	18,010	4,100	14,820
	0.750		19.1	349.88	723.8	1,067,540	10,570	5,170	8,700	1,590,230	15,750	5,170	12,960	1,984,470	19,650	5,170	16,170
	0.812		20.6	376.60	720.8	1,149,050	11,400	6,180	9,380	1,711,660	16,980	6,180	13,980	2,135,990	21,190	6,180	17,440

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels					241				359				448				
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
	0.875		22.2	404.97	717.6	1,235,620	12,290	7,250	10,110	1,840,620	18,300	8,240	15,060	2,296,930	22,840	8,490	18,790
	0.938		23.8	433.22	714.4	1,321,810	13,170	8,330	10,840	1,969,010	19,620	9,740	16,150	2,457,150	24,490	10,360	20,150
	1.000		25.4	461.34	711.2	1,407,620	14,060	9,400	11,570	2,096,820	20,940	11,250	17,230	2,616,650	26,130	12,220	21,500
	1.062		27.0	489.34	708.0	1,493,040	14,940	10,480	12,300	2,224,070	22,260	12,750	18,320	2,775,440	27,780	14,090	22,860
	1.125		28.6	517.21	704.8	1,578,070	15,830	11,840	13,030	2,350,740	23,580	14,250	19,400	2,933,510	29,430	15,950	24,210
	1.188		30.2	544.95	701.6	1,662,720	16,720	13,330	13,750	2,476,830	24,900	15,840	20,490	3,090,860	31,070	17,820	25,570
	1.250		31.8	572.57	698.4	1,746,980	17,600	14,820	14,480	2,602,350	26,220	18,080	21,570	3,247,500	32,720	19,680	26,920
32	0.219	813	5.6	111.49	801.8	340,170	2,910	110	2,390	506,730	4,330	110	3,560	632,350	5,400	110	4,440
	0.250		6.4	127.29	800.2	388,380	3,320	160	2,730	578,540	4,950	160	4,070	721,970	6,170	160	5,080
	0.281		7.1	141.09	798.8	430,490	3,680	220	3,030	641,260	5,490	220	4,510	800,240	6,850	220	5,630
	0.312		7.9	156.83	797.2	478,520	4,100	300	3,370	712,810	6,100	300	5,020	889,520	7,620	300	6,270
	0.344		8.7	172.54	795.6	526,450	4,510	410	3,710	784,210	6,720	410	5,530	978,630	8,390	410	6,900
	0.375		9.5	188.22	794.0	574,290	4,930	530	4,060	855,470	7,340	530	6,040	1,067,550	9,160	530	7,540
	0.406		10.3	203.87	792.4	622,030	5,340	680	4,400	926,590	7,960	680	6,550	1,156,300	9,930	680	8,170
	0.438		11.1	219.48	790.8	669,670	5,760	850	4,740	997,560	8,580	850	7,060	1,244,870	10,700	850	8,810
	0.469		11.9	235.07	789.2	717,220	6,170	1,050	5,080	1,068,390	9,200	1,050	7,570	1,333,260	11,480	1,050	9,440
	0.500		12.7	250.62	787.6	764,670	6,590	1,270	5,420	1,139,080	9,810	1,270	8,080	1,421,470	12,250	1,270	10,080
	0.562		14.3	281.63	784.4	859,290	7,420	1,830	6,100	1,280,020	11,050	1,830	9,090	1,597,350	13,790	1,830	11,350
	0.625		15.9	312.51	781.2	953,520	8,250	2,520	6,790	1,420,390	12,290	2,520	10,110	1,772,520	15,330	2,520	12,620
	0.688		17.5	343.27	778.0	1,047,360	9,080	3,370	7,470	1,560,180	13,520	3,370	11,130	1,946,970	16,880	3,370	13,890
	0.750		19.1	373.90	774.8	1,140,820	9,910	4,370	8,150	1,699,400	14,760	4,400	12,150	2,120,700	18,420	4,400	15,160
	0.812		20.6	402.50	771.8	1,228,090	10,690	5,310	8,790	1,829,400	15,920	5,540	13,100	2,282,930	19,870	5,540	16,350
	0.875		22.2	432.89	768.6	1,320,810	11,520	6,320	9,480	1,967,510	17,160	6,930	14,120	2,455,270	21,410	6,970	17,620
	0.938		23.8	463.15	765.4	1,413,130	12,350	7,320	10,160	2,105,040	18,390	8,340	15,130	2,626,900	22,950	8,620	18,890
	1.000		25.4	493.29	762.2	1,505,080	13,180	8,330	10,840	2,242,000	19,630	9,750	16,150	2,797,820	24,490	10,360	20,160
	1.062		27.0	523.29	759.0	1,596,640	14,010	9,340	11,530	2,378,390	20,860	11,160	17,170	2,968,020	26,040	12,110	21,420
	1.125		28.6	553.18	755.8	1,687,810	14,840	10,350	12,210	2,514,200	22,100	12,570	18,190	3,137,500	27,580	13,860	22,690
	1.188		30.2	582.93	752.6	1,778,600	15,670	11,570	12,890	2,649,440	23,340	13,970	19,200	3,306,270	29,120	15,610	23,960
	1.250		31.8	612.56	749.4	1,869,000	16,500	12,960	13,570	2,784,110	24,570	15,380	20,220	3,474,320	30,670	17,360	25,230
34	0.219	864	5.6	118.53	852.8	361,660	2,730	90	2,250	538,730	4,070	90	3,350	672,290	5,080	90	4,180
	0.250		6.4	135.34	851.2	412,940	3,120	130	2,570	615,120	4,650	130	3,830	767,620	5,810	130	4,780
	0.281		7.1	150.02	849.8	457,730	3,470	180	2,850	681,840	5,160	180	4,250	850,880	6,440	180	5,300
	0.312		7.9	166.77	848.2	508,830	3,860	250	3,170	757,960	5,740	250	4,730	945,870	7,170	250	5,900
	0.344		8.7	183.48	846.6	559,830	4,250	340	3,490	833,940	6,330	340	5,210	1,040,680	7,890	340	6,500
	0.375		9.5	200.17	845.0	610,740	4,640	440	3,820	909,770	6,910	440	5,680	1,135,310	8,620	440	7,090
	0.406		10.3	216.82	843.4	661,550	5,030	560	4,140	985,460	7,490	560	6,160	1,229,770	9,350	560	7,690
	0.438		11.1	233.44	841.8	712,260	5,420	700	4,460	1,061,010	8,070	700	6,640	1,324,040	10,070	700	8,290
	0.469		11.9	250.03	840.2	762,880	5,810	870	4,780	1,136,410	8,650	870	7,120	1,418,140	10,800	870	8,890
	0.500		12.7	266.59	838.6	813,400	6,200	1,060	5,100	1,211,670	9,230	1,060	7,600	1,512,050	11,520	1,060	9,480
	0.562		14.3	299.61	835.4	914,160	6,980	1,520	5,740	1,361,750	10,400	1,520	8,560	1,699,350	12,980	1,520	10,680
	0.625		15.9	332.51	832.2	1,014,530	7,760	2,090	6,390	1,511,270	11,560	2,090	9,510	1,885,930	14,430	2,090	11,870
	0.688		17.5	365.28	829.0	1,114,510	8,540	2,800	7,030	1,660,210	12,720	2,800	10,470	2,071,790	15,880	2,800	13,070
	0.750		19.1	397.92	825.8	1,214,110	9,320	3,660	7,670	1,808,570	13,890	3,660	11,430	2,256,930	17,330	3,660	14,260
	0.812		20.6	428.41	822.8	1,307,130	10,060	4,540	8,270	1,947,140	14,980	4,600	12,330	2,429,860	18,690	4,600	15,380
	0.875		22.2	460.81	819.6	1,405,990	10,840	5,490	8,920	2,094,400	16,140	5,780	13,280	2,613,620	20,140	5,780	16,580
	0.938		23.8	493.08	816.4	1,504,450	11,620	6,440	9,560	2,241,070	17,310	7,100	14,240	2,796,660	21,600	7,150	17,770
	1.000		25.4	525.23	813.2	1,602,540	12,400	7,390	10,200	2,387,180	18,470	8,430	15,200	2,978,990	23,050	8,730	18,970
	1.062		27.0	557.25	810.0	1,700,230	13,180	8,340	10,850	2,532,710	19,630	9,750	16,160	3,160,600	24,500	10,370	20,160
	1.125		28.6	589.14	806.8	1,797,550	13,960	9,280	11,490	2,677,670	20,800	11,080	17,110	3,341,490	25,950	12,020	21,350
	1.188		30.2	620.91	803.6	1,894,470	14,740	10,230	12,130	2,822,060	21,960	12,410	18,070	3,521,670	27,400	13,660	22,550
	1.250		31.8	652.55	800.4	1,991,010	15,520	11,330	12,770	2,965,870	23,120	13,730	19,030	3,701,140	28,860	15,310	23,740
36	0.219	914	5.6	125.44	902.8	382,720	2,580	80	2,130	570,110	3,850	80	3,170	711,450	4,800	80	3,950

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448				
OD	Wall Thickness	OD	Wall Thickness	Linear Mass	ID	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	
(in)	(in)	(mm)	(mm)	(kg/m)		(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(kPa)
	0.250		6.4	143.23	901.2	437,010	2,950	110	2,430	650,990	4,400	110	3,620	812,370	5,490	110	4,520	
	0.281		7.1	158.77	899.8	484,440	3,280	150	2,700	721,630	4,880	150	4,020	900,530	6,090	150	5,010	
	0.312		7.9	176.51	898.2	538,550	3,650	210	3,000	802,230	5,430	210	4,470	1,001,110	6,780	210	5,580	
	0.344		8.7	194.21	896.6	592,560	4,010	280	3,300	882,690	5,980	280	4,920	1,101,520	7,460	280	6,140	
	0.375		9.5	211.88	895.0	646,470	4,380	370	3,610	963,010	6,530	370	5,370	1,201,750	8,150	370	6,710	
	0.406		10.3	229.52	893.4	700,290	4,750	470	3,910	1,043,180	7,080	470	5,830	1,301,790	8,840	470	7,270	
	0.438		11.1	247.13	891.8	754,020	5,120	590	4,210	1,123,210	7,630	590	6,280	1,401,660	9,520	590	7,830	
	0.469		11.9	264.70	890.2	807,650	5,490	730	4,520	1,203,090	8,180	730	6,730	1,501,350	10,210	730	8,400	
	0.500		12.7	282.25	888.6	861,180	5,860	890	4,820	1,282,830	8,730	890	7,180	1,600,860	10,890	890	8,960	
	0.562		14.3	317.24	885.4	967,950	6,600	1,280	5,430	1,441,880	9,830	1,280	8,090	1,799,340	12,270	1,280	10,090	
	0.625		15.9	352.11	882.2	1,074,340	7,340	1,770	6,040	1,600,360	10,930	1,770	8,990	1,997,110	13,640	1,770	11,220	
	0.688		17.5	386.85	879.0	1,180,340	8,080	2,360	6,640	1,758,270	12,030	2,360	9,900	2,194,160	15,010	2,360	12,350	
	0.750		19.1	421.47	875.8	1,285,960	8,810	3,080	7,250	1,915,600	13,130	3,080	10,800	2,390,500	16,380	3,080	13,480	
	0.812		20.6	453.81	872.8	1,384,630	9,510	3,880	7,820	2,062,580	14,160	3,880	11,650	2,573,910	17,670	3,880	14,540	
	0.875		22.2	488.18	869.6	1,489,500	10,240	4,770	8,430	2,218,800	15,260	4,770	12,560	2,768,860	19,040	4,770	15,670	
	0.938		23.8	522.43	866.4	1,593,980	10,980	5,670	9,040	2,374,440	16,360	5,670	13,460	2,963,090	20,410	5,670	16,800	
	1.000		25.4	556.54	863.2	1,698,080	11,720	6,560	9,640	2,529,510	17,460	6,560	14,370	3,156,610	21,790	6,560	17,930	
	1.062		27.0	590.54	860.0	1,801,800	12,460	7,460	10,250	2,684,010	18,560	7,460	15,270	3,349,410	23,160	7,460	19,060	
	1.125		28.6	624.40	856.8	1,905,130	13,200	8,360	10,860	2,837,930	19,660	8,360	16,180	3,541,490	24,530	8,360	20,190	
	1.188		30.2	658.14	853.6	2,008,080	13,940	9,250	11,470	2,991,280	20,760	9,250	17,080	3,732,860	25,900	9,250	21,320	
	1.250		31.8	691.76	850.4	2,110,640	14,670	10,150	12,070	3,144,060	21,860	10,150	17,990	3,923,510	27,280	10,150	22,450	
	1.500		38.1	822.88	837.8	2,510,720	17,580	14,780	14,470	3,740,040	26,190	14,780	21,550	4,667,240	32,680	14,780	26,890	
38	0.250	965	6.4	151.28	952.2	461,570	2,800	100	2,300	687,570	4,170	100	3,430	858,020	5,200	100	4,280	
	0.281		7.1	167.70	950.8	511,680	3,100	130	2,550	762,210	4,620	130	3,800	951,170	5,770	130	4,750	
	0.312		7.9	186.44	949.2	568,860	3,450	180	2,840	847,390	5,140	180	4,230	1,057,460	6,420	180	5,280	
	0.344		8.7	205.15	947.6	625,940	3,800	240	3,130	932,420	5,660	240	4,660	1,163,570	7,070	240	5,820	
	0.375		9.5	223.83	946.0	682,930	4,150	320	3,420	1,017,300	6,180	320	5,090	1,269,510	7,720	320	6,350	
	0.406		10.3	242.47	944.4	739,820	4,500	400	3,700	1,102,050	6,710	400	5,520	1,375,260	8,370	400	6,890	
	0.438		11.1	261.09	942.8	796,610	4,850	500	3,990	1,186,650	7,230	500	5,950	1,480,830	9,020	500	7,420	
	0.469		11.9	279.67	941.2	853,310	5,200	620	4,280	1,271,110	7,750	620	6,370	1,586,230	9,670	620	7,960	
	0.500		12.7	298.22	939.6	909,910	5,550	760	4,570	1,355,420	8,270	760	6,800	1,691,440	10,320	760	8,490	
	0.562		14.3	335.23	936.4	1,022,820	6,250	1,090	5,140	1,523,620	9,310	1,090	7,660	1,901,340	11,620	1,090	9,560	
	0.625		15.9	372.11	933.2	1,135,350	6,950	1,500	5,720	1,691,240	10,350	1,500	8,520	2,110,520	12,920	1,500	10,630	
	0.688		17.5	408.86	930.0	1,247,490	7,650	2,000	6,290	1,858,290	11,390	2,000	9,370	2,318,980	14,220	2,000	11,700	
	0.750		19.1	445.49	926.8	1,359,250	8,350	2,610	6,870	2,024,770	12,430	2,610	10,230	2,526,730	15,520	2,610	12,770	
	0.812		20.6	479.71	923.8	1,463,670	9,000	3,290	7,410	2,180,320	13,410	3,290	11,040	2,720,840	16,740	3,290	13,770	
	0.875		22.2	516.10	920.6	1,574,680	9,700	4,120	7,980	2,345,680	14,450	4,120	11,890	2,927,200	18,040	4,120	14,840	
	0.938		23.8	552.36	917.4	1,685,300	10,400	4,960	8,560	2,510,470	15,490	4,960	12,750	3,132,850	19,340	4,960	15,910	
	1.000		25.4	588.49	914.2	1,795,540	11,100	5,810	9,130	2,674,690	16,540	5,810	13,610	3,337,770	20,640	5,810	16,980	
	1.062		27.0	624.49	911.0	1,905,400	11,800	6,660	9,710	2,838,330	17,580	6,660	14,460	3,541,990	21,940	6,660	18,050	
	1.125		28.6	660.37	907.8	2,014,870	12,500	7,510	10,290	3,001,400	18,620	7,510	15,320	3,745,480	23,240	7,510	19,120	
	1.188		30.2	696.12	904.6	2,123,950	13,200	8,360	10,860	3,163,900	19,660	8,360	16,180	3,948,260	24,540	8,360	20,190	
	1.250		31.8	731.75	901.4	2,232,650	13,900	9,210	11,440	3,325,820	20,700	9,210	17,040	4,150,330	25,840	9,210	21,260	
	1.500		38.1	870.80	888.8	2,656,910	16,650	13,220	13,700	3,957,810	24,800	13,700	20,410	4,938,990	30,950	13,700	25,470	
40	0.250	1016	6.4	159.33	1,003.2	486,130	2,660	80	2,190	724,150	3,960	80	3,260	903,670	4,940	80	4,060	
	0.281		7.1	176.63	1,001.8	538,920	2,950	110	2,430	802,790	4,390	110	3,610	1,001,810	5,480	110	4,510	
	0.312		7.9	196.38	1,000.2	599,170	3,280	150	2,700	892,540	4,890	150	4,020	1,113,810	6,100	150	5,020	
	0.344		8.7	216.09	998.6	659,320	3,610	210	2,970	982,140	5,380	210	4,430	1,225,630	6,710	210	5,520	
	0.375		9.5	235.77	997.0	719,380	3,940	270	3,240	1,071,600	5,870	270	4,830	1,337,270	7,330	270	6,030	
	0.406		10.3	255.43	995.4	779,340	4,280	340	3,520	1,160,920	6,370	340	5,240	1,448,730	7,950	340	6,540	
	0.438		11.1	275.05	993.8	839,200	4,610	430	3,790	1,250,090	6,860	430	5,650	1,560,010	8,570	430	7,050	
	0.469		11.9	294.63	992.2	898,970	4,940	530	4,060	1,339,120	7,360	530	6,050	1,671,110	9,180	530	7,560	
	0.500		12.7	314.19	990.6	958,640	5,270	650	4,340	1,428,010	7,850	650	6,460	1,782,030	9,800	650	8,060	

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448			
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
	0.562		14.3	353.21	987.4	1,077,690	5,940	930	4,880	1,605,350	8,840	930	7,280	2,003,340	11,030	930	9,080
	0.625		15.9	392.10	984.2	1,196,350	6,600	1,280	5,430	1,782,120	9,830	1,280	8,090	2,223,930	12,270	1,280	10,100
	0.688		17.5	430.87	981.0	1,314,640	7,260	1,710	5,980	1,958,320	10,820	1,710	8,900	2,443,800	13,500	1,710	11,110
	0.750		19.1	469.51	977.8	1,432,530	7,930	2,230	6,520	2,133,940	11,810	2,230	9,720	2,662,960	14,740	2,230	12,130
	0.812		20.6	505.62	974.8	1,542,710	8,550	2,810	7,040	2,298,060	12,740	2,810	10,480	2,867,780	15,900	2,810	13,080
	0.875		22.2	544.02	971.6	1,659,860	9,220	3,530	7,580	2,472,570	13,730	3,530	11,300	3,085,550	17,130	3,530	14,100
	0.938		23.8	582.29	968.4	1,776,620	9,880	4,330	8,130	2,646,510	14,720	4,360	12,110	3,302,600	18,370	4,360	15,110
	1.000		25.4	620.43	965.2	1,893,000	10,540	5,140	8,680	2,819,870	15,710	5,320	12,920	3,518,940	19,600	5,320	16,130
	1.062		27.0	658.44	962.0	2,009,000	11,210	5,940	9,220	2,992,660	16,700	6,410	13,740	3,734,570	20,830	6,410	17,140
	1.125		28.6	696.34	958.8	2,124,610	11,870	6,750	9,770	3,164,870	17,680	7,530	14,550	3,949,480	22,070	7,640	18,160
	1.188		30.2	734.10	955.6	2,239,830	12,540	7,550	10,320	3,336,510	18,670	8,660	15,370	4,163,670	23,300	9,020	19,180
	1.250		31.8	771.74	952.4	2,354,670	13,200	8,360	10,860	3,507,580	19,660	9,790	16,180	4,377,140	24,540	10,420	20,190
	1.500		38.1	918.71	939.8	2,803,100	15,820	11,820	13,010	4,175,570	23,560	14,230	19,390	5,210,740	29,400	15,920	24,190
42	0.250	1067	6.4	167.38	1,054.2	510,680	2,530	70	2,080	760,730	3,770	70	3,100	949,320	4,700	70	3,870
	0.281		7.1	185.56	1,052.8	566,160	2,810	100	2,310	843,370	4,180	100	3,440	1,052,460	5,220	100	4,290
	0.344		8.7	227.03	1,049.6	692,700	3,440	180	2,830	1,031,870	5,120	180	4,220	1,287,680	6,390	180	5,260
	0.375		9.5	247.72	1,048.0	755,830	3,760	230	3,090	1,125,900	5,590	230	4,600	1,405,030	6,980	230	5,740
	0.406		10.3	268.38	1,046.4	818,860	4,070	300	3,350	1,219,790	6,060	300	4,990	1,522,190	7,570	300	6,230
	0.438		11.1	289.00	1,044.8	881,790	4,390	370	3,610	1,313,540	6,540	370	5,380	1,639,180	8,160	370	6,710
	0.469		11.9	309.60	1,043.2	944,630	4,700	460	3,870	1,407,140	7,010	460	5,770	1,755,990	8,740	460	7,190
	0.500		12.7	330.16	1,041.6	1,007,370	5,020	560	4,130	1,500,600	7,480	560	6,150	1,872,610	9,330	560	7,680
	0.562		14.3	371.19	1,038.4	1,132,560	5,650	800	4,650	1,687,090	8,420	800	6,930	2,105,330	10,510	800	8,650
	0.625		15.9	412.10	1,035.2	1,257,360	6,280	1,100	5,170	1,873,000	9,360	1,100	7,700	2,337,340	11,680	1,100	9,610
	0.688		17.5	452.88	1,032.0	1,381,780	6,920	1,480	5,690	2,058,340	10,300	1,480	8,480	2,568,630	12,860	1,480	10,580
	0.750		19.1	493.53	1,028.8	1,505,820	7,550	1,930	6,210	2,243,110	11,250	1,930	9,250	2,799,200	14,030	1,930	11,550
	0.812		20.6	531.53	1,025.8	1,621,750	8,140	2,420	6,720	2,415,800	12,130	2,420	9,980	3,014,710	15,140	2,420	12,450
	0.875		22.2	571.93	1,022.6	1,745,040	8,770	3,040	7,220	2,599,460	13,070	3,040	10,760	3,243,890	16,310	3,040	13,420
	0.938		23.8	612.22	1,019.4	1,867,940	9,410	3,760	7,740	2,782,540	14,010	3,760	11,530	3,472,360	17,490	3,760	14,390
	1.000		25.4	652.37	1,016.2	1,990,460	10,040	4,530	8,260	2,965,050	14,960	4,580	12,310	3,700,110	18,660	4,580	15,360
	1.062		27.0	692.40	1,013.0	2,112,600	10,670	5,290	8,780	3,146,980	15,900	5,520	13,080	3,927,150	19,840	5,520	16,320
	1.125		28.6	732.30	1,009.8	2,234,340	11,300	6,060	9,300	3,328,340	16,840	6,570	13,860	4,153,470	21,010	6,580	17,290
	1.188		30.2	772.08	1,006.6	2,355,710	11,940	6,830	9,820	3,509,120	17,780	7,650	14,630	4,379,070	22,190	7,770	18,260
	1.250		31.8	811.73	1,003.4	2,476,680	12,570	7,590	10,340	3,689,340	18,720	8,720	15,410	4,603,960	23,370	9,090	19,230
	1.500		38.1	966.62	990.8	2,949,290	15,060	10,620	12,390	4,393,340	22,430	12,940	18,460	5,482,500	27,990	14,330	23,040
44	0.250	1118	6.4	175.42	1,105.2	535,240	2,410	60	1,990	797,310	3,600	60	2,960	994,970	4,490	60	3,690
	0.281		7.1	194.49	1,103.8	593,410	2,680	80	2,200	883,950	3,990	80	3,280	1,103,100	4,980	80	4,100
	0.312		7.9	216.25	1,102.2	659,790	2,980	120	2,450	982,850	4,440	120	3,650	1,226,510	5,540	120	4,560
	0.344		8.7	237.97	1,100.6	726,090	3,280	150	2,700	1,081,600	4,890	150	4,020	1,349,740	6,100	150	5,020
	0.375		9.5	259.67	1,099.0	792,280	3,580	200	2,950	1,180,200	5,340	200	4,390	1,472,790	6,660	200	5,480
	0.406		10.3	281.33	1,097.4	858,380	3,890	260	3,200	1,278,660	5,790	260	4,760	1,595,660	7,220	260	5,940
	0.438		11.1	302.96	1,095.8	924,380	4,190	320	3,450	1,376,980	6,240	320	5,130	1,718,350	7,780	320	6,410
	0.469		11.9	324.56	1,094.2	990,290	4,490	400	3,690	1,475,160	6,690	400	5,500	1,840,860	8,340	400	6,870
	0.500		12.7	346.13	1,092.6	1,056,100	4,790	490	3,940	1,573,190	7,140	490	5,870	1,963,200	8,910	490	7,330
	0.562		14.3	389.18	1,089.4	1,187,430	5,390	700	4,440	1,768,820	8,040	700	6,610	2,207,330	10,030	700	8,250
	0.625		15.9	432.09	1,086.2	1,318,370	6,000	960	4,940	1,963,880	8,930	960	7,350	2,450,750	11,150	960	9,170
	0.688		17.5	474.88	1,083.0	1,448,930	6,600	1,280	5,430	2,158,360	9,830	1,280	8,090	2,693,450	12,270	1,280	10,100
	0.750		19.1	517.55	1,079.8	1,579,100	7,210	1,670	5,930	2,352,280	10,730	1,670	8,830	2,935,430	13,390	1,670	11,020
	0.812		20.6	557.43	1,076.8	1,700,790	7,770	2,100	6,390	2,533,550	11,580	2,100	9,530	3,161,640	14,450	2,100	11,890
	0.875		22.2	599.85	1,073.6	1,830,220	8,370	2,640	6,890	2,726,350	12,480	2,640	10,270	3,402,240	15,570	2,640	12,810
	0.938		23.8	642.14	1,070.4	1,959,260	8,980	3,260	7,390	2,918,570	13,370	3,260	11,010	3,642,120	16,690	3,260	13,730
	1.000		25.4	684.31	1,067.2	2,087,920	9,580	3,970	7,880	3,110,220	14,270	3,970	11,740	3,881,280	17,810	3,970	14,660
	1.062		27.0	726.35	1,064.0	2,216,190	10,190	4,700	8,380	3,301,300	15,170	4,790	12,480	4,119,730	18,930	4,790	15,580
	1.125		28.6	768.27	1,060.8	2,344,080	10,790	5,430	8,880	3,491,810	16,070	5,710	13,220	4,357,460	20,060	5,710	16,500

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448			
OD	Wall Thickness	OD	Wall Thickness	Linear Mass	ID	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP
(in)	(in)	(mm)	(mm)	(kg/m)		(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)
	1.188		30.2	810.06	1,057.6	2,471,580	11,390	6,170	9,370	3,681,740	16,970	6,720	13,960	4,594,480	21,180	6,740	17,430
	1.250		31.8	851.72	1,054.4	2,598,700	12,000	6,900	9,870	3,871,090	17,870	7,750	14,700	4,830,780	22,300	7,890	18,350
	1.500		38.1	1,014.54	1,041.8	3,095,480	14,370	9,780	11,830	4,611,110	21,410	11,780	17,620	5,754,250	26,720	12,880	21,980
46	0.250	1168	6.4	183.31	1,155.2	559,310	2,310	50	1,900	833,170	3,440	50	2,830	1,039,720	4,300	50	3,530
	0.281		7.1	203.24	1,153.8	620,120	2,560	70	2,110	923,740	3,820	70	3,140	1,152,750	4,770	70	3,920
	0.312		7.9	225.99	1,152.2	689,510	2,850	100	2,350	1,027,120	4,250	100	3,500	1,281,750	5,300	100	4,360
	0.344		8.7	248.70	1,150.6	758,810	3,140	140	2,580	1,130,350	4,680	140	3,850	1,410,570	5,840	140	4,810
	0.375		9.5	271.38	1,149.0	828,020	3,430	180	2,820	1,233,440	5,110	180	4,200	1,539,220	6,380	180	5,250
	0.406		10.3	294.03	1,147.4	897,120	3,720	230	3,060	1,336,380	5,540	230	4,560	1,667,680	6,910	230	5,690
	0.438		11.1	316.65	1,145.8	966,140	4,010	280	3,300	1,439,180	5,970	280	4,910	1,795,970	7,450	280	6,130
	0.469		11.9	339.24	1,144.2	1,035,050	4,300	350	3,540	1,541,840	6,400	350	5,270	1,924,080	7,990	350	6,570
	0.500		12.7	361.79	1,142.6	1,103,870	4,590	430	3,770	1,644,350	6,830	430	5,620	2,052,010	8,520	430	7,010
	0.562		14.3	406.81	1,139.4	1,241,220	5,160	610	4,250	1,848,950	7,690	610	6,330	2,307,330	9,600	610	7,900
	0.625		15.9	451.70	1,136.2	1,378,180	5,740	840	4,720	2,052,980	8,550	840	7,040	2,561,930	10,670	840	8,780
	0.688		17.5	496.46	1,133.0	1,514,760	6,320	1,120	5,200	2,256,430	9,410	1,120	7,750	2,815,820	11,750	1,120	9,670
	0.750		19.1	541.10	1,129.8	1,650,950	6,900	1,460	5,680	2,459,300	10,270	1,460	8,450	3,068,990	12,820	1,460	10,550
	0.812		20.6	582.83	1,126.8	1,778,290	7,440	1,840	6,120	2,648,980	11,080	1,840	9,120	3,305,690	13,830	1,840	11,380
	0.875		22.2	627.22	1,123.6	1,913,730	8,020	2,310	6,600	2,850,750	11,940	2,310	9,830	3,557,480	14,900	2,310	12,260
	0.938		23.8	671.49	1,120.4	2,048,790	8,590	2,850	7,070	3,051,940	12,800	2,850	10,530	3,808,550	15,980	2,850	13,150
	1.000		25.4	715.63	1,117.2	2,183,470	9,170	3,480	7,550	3,252,560	13,660	3,480	11,240	4,058,900	17,050	3,480	14,030
	1.062		27.0	759.64	1,114.0	2,317,760	9,750	4,170	8,020	3,452,600	14,520	4,190	11,950	4,308,540	18,120	4,190	14,910
	1.125		28.6	803.53	1,110.8	2,451,670	10,330	4,870	8,500	3,652,070	15,380	4,990	12,660	4,557,460	19,200	4,990	15,800
	1.188		30.2	847.29	1,107.6	2,585,190	10,900	5,580	8,970	3,850,970	16,240	5,900	13,370	4,805,660	20,270	5,900	16,680
	1.250		31.8	890.93	1,104.4	2,718,320	11,480	6,280	9,450	4,049,290	17,100	6,870	14,070	5,053,150	21,350	6,900	17,560
	1.500		38.1	1,061.51	1,091.8	3,238,800	13,760	9,040	11,320	4,824,600	20,490	10,730	16,860	6,020,680	25,570	11,590	21,040
48	0.250	1219	6.4	191.36	1,206.2	583,870	2,210	50	1,820	869,750	3,300	50	2,710	1,085,370	4,120	50	3,390
	0.281		7.1	212.17	1,204.8	647,360	2,460	60	2,020	964,320	3,660	60	3,010	1,203,390	4,570	60	3,760
	0.312		7.9	235.92	1,203.2	719,820	2,730	90	2,250	1,072,270	4,070	90	3,350	1,338,100	5,080	90	4,180
	0.344		8.7	259.64	1,201.6	792,190	3,010	120	2,480	1,180,070	4,480	120	3,690	1,472,630	5,600	120	4,600
	0.375		9.5	283.33	1,200.0	864,470	3,290	160	2,700	1,287,730	4,900	160	4,030	1,606,980	6,110	160	5,030
	0.406		10.3	306.98	1,198.4	936,650	3,560	200	2,930	1,395,250	5,310	200	4,370	1,741,150	6,620	200	5,450
	0.438		11.1	330.61	1,196.8	1,008,730	3,840	250	3,160	1,502,630	5,720	250	4,710	1,875,140	7,140	250	5,870
	0.469		11.9	354.20	1,195.2	1,080,710	4,120	310	3,390	1,609,860	6,130	310	5,050	2,008,960	7,650	310	6,300
	0.500		12.7	377.76	1,193.6	1,152,600	4,390	370	3,620	1,716,940	6,550	370	5,390	2,142,590	8,170	370	6,720
	0.562		14.3	424.79	1,190.4	1,296,090	4,950	540	4,070	1,930,690	7,370	540	6,060	2,409,320	9,200	540	7,570
	0.625		15.9	471.69	1,187.2	1,439,190	5,500	740	4,530	2,143,860	8,190	740	6,740	2,675,340	10,230	740	8,410
	0.688		17.5	518.47	1,184.0	1,581,910	6,050	990	4,980	2,356,450	9,020	990	7,420	2,940,640	11,260	990	9,260
	0.750		19.1	565.12	1,180.8	1,724,240	6,610	1,290	5,440	2,568,470	9,840	1,290	8,100	3,205,230	12,280	1,290	10,110
	0.812		20.6	608.74	1,177.8	1,857,330	7,130	1,620	5,860	2,766,720	10,620	1,620	8,740	3,452,620	13,250	1,620	10,900
	0.875		22.2	655.14	1,174.6	1,998,910	7,680	2,030	6,320	2,977,630	11,440	2,030	9,410	3,715,820	14,280	2,030	11,750
	0.938		23.8	701.42	1,171.4	2,140,110	8,230	2,510	6,780	3,187,970	12,270	2,510	10,090	3,978,300	15,310	2,510	12,600
	1.000		25.4	747.57	1,168.2	2,280,930	8,790	3,050	7,230	3,397,730	13,090	3,050	10,770	4,240,070	16,340	3,050	13,440
	1.062		27.0	793.60	1,165.0	2,421,360	9,340	3,680	7,690	3,606,920	13,920	3,680	11,450	4,501,120	17,370	3,680	14,290
	1.125		28.6	839.50	1,161.8	2,561,410	9,900	4,350	8,140	3,815,540	14,740	4,380	12,130	4,761,450	18,390	4,380	15,140
	1.188		30.2	885.27	1,158.6	2,701,070	10,450	5,020	8,600	4,023,580	15,560	5,180	12,810	5,021,070	19,420	5,180	15,980
	1.250		31.8	930.92	1,155.4	2,840,340	11,000	5,690	9,050	4,231,050	16,390	6,060	13,490	5,279,970	20,450	6,060	16,830
	1.500		38.1	1,109.42	1,142.8	3,384,990	13,180	8,340	10,850	5,042,370	19,640	9,760	16,160	6,292,430	24,500	10,380	20,160
50	0.250	1270	6.4	199.41	1,257.2	608,430	2,130	40	1,750	906,330	3,170	40	2,610	1,131,020	3,950	40	3,250
	0.281		7.1	221.10	1,255.8	674,600	2,360	60	1,940	1,004,900	3,510	60	2,890	1,254,030	4,380	60	3,610
	0.312		7.9	245.86	1,254.2	750,140	2,620	80	2,160	1,117,420	3,910	80	3,220	1,394,440	4,880	80	4,010
	0.344		8.7	270.58	1,252.6	825,580	2,890	110	2,380	1,229,800	4,300	110	3,540	1,534,680	5,370	110	4,420
	0.375		9.5	295.27	1,251.0	900,920	3,150	140	2,600	1,342,030	4,700	140	3,870	1,674,740	5,860	140	4,830

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448				
OD	Wall Thickness	OD	Wall Thickness	Linear Mass	ID	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	
(in)	(in)	(mm)	(mm)	(kg/m)		(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(kPa)
	0.406		10.3	319.94	1,249.4	976,170	3,420	180	2,810	1,454,120	5,100	180	4,190	1,814,620	6,360	180	5,230	
	0.438		11.1	344.57	1,247.8	1,051,320	3,690	220	3,030	1,566,070	5,490	220	4,520	1,954,310	6,850	220	5,640	
	0.469		11.9	369.17	1,246.2	1,126,370	3,950	270	3,250	1,677,870	5,890	270	4,840	2,093,830	7,350	270	6,040	
	0.500		12.7	393.73	1,244.6	1,201,330	4,220	330	3,470	1,789,530	6,280	330	5,170	2,233,180	7,840	330	6,450	
	0.562		14.3	442.77	1,241.4	1,350,960	4,750	470	3,910	2,012,420	7,070	470	5,820	2,511,320	8,830	470	7,260	
	0.625		15.9	491.69	1,238.2	1,500,200	5,280	650	4,340	2,234,740	7,870	650	6,470	2,788,750	9,820	650	8,080	
	0.688		17.5	540.47	1,235.0	1,649,050	5,810	870	4,780	2,456,480	8,660	870	7,120	3,065,460	10,800	870	8,890	
	0.750		19.1	589.14	1,231.8	1,797,530	6,340	1,140	5,220	2,677,640	9,450	1,140	7,770	3,341,460	11,790	1,140	9,700	
	0.812		20.6	634.64	1,228.8	1,936,370	6,840	1,430	5,630	2,884,470	10,190	1,430	8,390	3,599,560	12,720	1,430	10,460	
	0.875		22.2	683.06	1,225.6	2,084,090	7,370	1,790	6,070	3,104,520	10,980	1,790	9,040	3,874,170	13,700	1,790	11,280	
	0.938		23.8	731.35	1,222.4	2,231,430	7,900	2,210	6,500	3,324,000	11,770	2,210	9,690	4,148,060	14,690	2,210	12,090	
	1.000		25.4	779.51	1,219.2	2,378,390	8,440	2,700	6,940	3,542,910	12,570	2,700	10,340	4,421,240	15,680	2,700	12,900	
	1.062		27.0	827.55	1,216.0	2,524,960	8,970	3,250	7,380	3,761,250	13,360	3,250	10,990	4,693,700	16,670	3,250	13,720	
	1.125		28.6	875.46	1,212.8	2,671,140	9,500	3,870	7,820	3,979,010	14,150	3,870	11,640	4,965,440	17,660	3,870	14,530	
	1.188		30.2	923.25	1,209.6	2,816,940	10,030	4,510	8,250	4,196,190	14,940	4,570	12,290	5,236,470	18,640	4,570	15,340	
	1.250		31.8	970.91	1,206.4	2,962,360	10,560	5,160	8,690	4,412,800	15,730	5,350	12,940	5,506,790	19,630	5,350	16,150	
	1.500		38.1	1,157.34	1,193.8	3,531,180	12,650	7,700	10,410	5,260,140	18,850	8,860	15,510	6,564,180	23,520	9,260	19,350	
52	0.250	1321	6.4	207.46	1,308.2	632,980	2,040	40	1,680	942,910	3,040	40	2,500	1,176,670	3,800	40	3,130	
	0.281		7.1	230.03	1,306.8	701,840	2,270	50	1,870	1,045,480	3,380	50	2,780	1,304,670	4,210	50	3,470	
	0.312		7.9	255.79	1,305.2	780,450	2,520	70	2,080	1,162,580	3,760	70	3,090	1,450,790	4,690	70	3,860	
	0.344		8.7	281.52	1,303.6	858,960	2,780	90	2,290	1,279,530	4,140	90	3,400	1,596,730	5,160	90	4,250	
	0.375		9.5	307.22	1,302.0	937,370	3,030	120	2,500	1,396,330	4,520	120	3,720	1,742,500	5,640	120	4,640	
	0.406		10.3	332.89	1,300.4	1,015,690	3,290	160	2,710	1,512,990	4,900	160	4,030	1,888,080	6,110	160	5,030	
	0.438		11.1	358.53	1,298.8	1,093,910	3,540	200	2,920	1,629,510	5,280	200	4,340	2,033,490	6,590	200	5,420	
	0.469		11.9	384.13	1,297.2	1,172,030	3,800	240	3,130	1,745,890	5,660	240	4,660	2,178,710	7,060	240	5,810	
	0.500		12.7	409.70	1,295.6	1,250,060	4,050	290	3,340	1,862,120	6,040	290	4,970	2,323,760	7,540	290	6,200	
	0.562		14.3	460.76	1,292.4	1,405,830	4,570	420	3,760	2,094,150	6,800	420	5,600	2,613,320	8,490	420	6,980	
	0.625		15.9	511.68	1,289.2	1,561,210	5,080	580	4,180	2,325,610	7,560	580	6,220	2,902,160	9,440	580	7,760	
	0.688		17.5	562.48	1,286.0	1,716,200	5,590	770	4,600	2,556,500	8,320	770	6,850	3,190,280	10,390	770	8,550	
	0.750		19.1	613.16	1,282.8	1,870,810	6,100	1,010	5,020	2,786,810	9,080	1,010	7,470	3,477,690	11,340	1,010	9,330	
	0.812		20.6	660.55	1,279.8	2,015,410	6,580	1,270	5,410	3,002,210	9,800	1,270	8,060	3,746,490	12,230	1,270	10,060	
	0.875		22.2	710.98	1,276.6	2,169,270	7,090	1,590	5,830	3,231,410	10,560	1,590	8,690	4,032,510	13,180	1,590	10,840	
	0.938		23.8	761.28	1,273.4	2,322,750	7,600	1,960	6,250	3,460,040	11,320	1,960	9,310	4,317,820	14,130	1,960	11,620	
	1.000		25.4	811.45	1,270.2	2,475,850	8,110	2,390	6,670	3,688,090	12,080	2,390	9,940	4,602,410	15,070	2,390	12,400	
	1.062		27.0	861.50	1,267.0	2,628,560	8,620	2,880	7,090	3,915,570	12,840	2,880	10,570	4,886,280	16,020	2,880	13,190	
	1.125		28.6	911.43	1,263.8	2,780,880	9,130	3,430	7,510	4,142,470	13,600	3,430	11,190	5,169,440	16,970	3,430	13,970	
	1.188		30.2	961.23	1,260.6	2,932,820	9,640	4,040	7,930	4,368,800	14,360	4,050	11,820	5,451,880	17,920	4,050	14,750	
	1.250		31.8	1,010.90	1,257.4	3,084,370	10,150	4,660	8,350	4,594,560	15,120	4,740	12,440	5,733,600	18,870	4,740	15,530	
	1.500		38.1	1,205.25	1,244.8	3,677,370	12,160	7,100	10,010	5,477,910	18,120	8,030	14,910	6,835,940	22,610	8,230	18,610	
54	0.250	1372	6.4	215.51	1,359.2	657,540	1,970	30	1,620	979,490	2,930	30	2,410	1,222,320	3,660	30	3,010	
	0.281		7.1	238.96	1,357.8	729,090	2,180	50	1,800	1,086,070	3,250	50	2,680	1,355,310	4,060	50	3,340	
	0.312		7.9	265.73	1,356.2	810,760	2,430	60	2,000	1,207,730	3,620	60	2,980	1,507,140	4,510	60	3,710	
	0.344		8.7	292.46	1,354.6	892,340	2,670	80	2,200	1,329,250	3,980	80	3,280	1,658,790	4,970	80	4,090	
	0.375		9.5	319.17	1,353.0	973,820	2,920	110	2,400	1,450,630	4,350	110	3,580	1,810,260	5,430	110	4,470	
	0.406		10.3	345.84	1,351.4	1,055,210	3,170	140	2,610	1,571,870	4,720	140	3,880	1,961,550	5,890	140	4,840	
	0.438		11.1	372.48	1,349.8	1,136,500	3,410	170	2,810	1,692,960	5,080	170	4,180	2,112,660	6,340	170	5,220	
	0.469		11.9	399.10	1,348.2	1,217,690	3,660	210	3,010	1,813,910	5,450	210	4,480	2,263,590	6,800	210	5,600	
	0.500		12.7	425.68	1,346.6	1,298,790	3,900	260	3,210	1,934,710	5,820	260	4,790	2,414,350	7,260	260	5,970	
	0.562		14.3	478.74	1,343.4	1,460,690	4,400	370	3,620	2,175,890	6,550	370	5,390	2,715,310	8,170	370	6,720	
	0.625		15.9	531.68	1,340.2	1,622,210	4,890	520	4,020	2,416,490	7,280	520	5,990	3,015,570	9,090	520	7,480	
	0.688		17.5	584.49	1,337.0	1,783,350	5,380	690	4,430	2,656,520	8,010	690	6,590	3,315,110	10,000	690	8,230	
	0.750		19.1	637.17	1,333.8	1,944,100	5,870	900	4,830	2,895,980	8,750	900	7,200	3,613,930	10,910	900	8,980	
	0.812		20.6	686.45	1,330.8	2,094,450	6,330	1,130	5,210	3,119,950	9,430	1,130	7,760	3,893,420	11,770	1,130	9,690	

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels		241								359				448			
OD	Wall Thickness	OD	Wall Thickness	Linear Mass	ID	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP
(in)	(in)	(mm)	(mm)	(kg/m)		(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)
	0.875		22.2	738.89	1,327.6	2,254,460	6,820	1,420	5,620	3,358,300	10,170	1,420	8,360	4,190,860	12,690	1,420	10,440
	0.938		23.8	791.21	1,324.4	2,414,070	7,320	1,750	6,020	3,596,070	10,900	1,750	8,970	4,487,570	13,600	1,750	11,190
	1.000		25.4	843.40	1,321.2	2,573,310	7,810	2,130	6,420	3,833,270	11,630	2,130	9,570	4,783,580	14,510	2,130	11,940
	1.062		27.0	895.46	1,318.0	2,732,160	8,300	2,570	6,830	4,069,890	12,360	2,570	10,170	5,078,860	15,430	2,570	12,700
	1.125		28.6	947.39	1,314.8	2,890,620	8,790	3,060	7,230	4,305,940	13,100	3,060	10,780	5,373,430	16,340	3,060	13,450
	1.188		30.2	999.20	1,311.6	3,048,700	9,280	3,610	7,640	4,541,420	13,830	3,610	11,380	5,667,280	17,260	3,610	14,200
	1.250		31.8	1,050.89	1,308.4	3,206,390	9,780	4,200	8,040	4,776,320	14,560	4,220	11,980	5,960,420	18,170	4,220	14,950
	1.500		38.1	1,253.16	1,295.8	3,823,560	11,710	6,550	9,640	5,695,670	17,450	7,260	14,360	7,107,690	21,770	7,330	17,910
56	0.375	1422	9.5	330.88	1,403.0	1,009,560	2,820	100	2,320	1,503,860	4,200	100	3,450	1,876,690	5,240	100	4,310
	0.406		10.3	358.54	1,401.4	1,093,950	3,050	120	2,510	1,629,580	4,550	120	3,740	2,033,570	5,680	120	4,670
	0.438		11.1	386.17	1,399.8	1,178,250	3,290	160	2,710	1,755,160	4,900	160	4,040	2,190,280	6,120	160	5,040
	0.469		11.9	413.77	1,398.2	1,262,460	3,530	190	2,900	1,880,590	5,260	190	4,330	2,346,810	6,560	190	5,400
	0.500		12.7	441.33	1,396.6	1,346,560	3,770	230	3,100	2,005,880	5,610	230	4,620	2,503,150	7,000	230	5,760
	0.562		14.3	496.37	1,393.4	1,514,490	4,240	340	3,490	2,256,020	6,320	340	5,200	2,815,310	7,880	340	6,490
	0.625		15.9	551.28	1,390.2	1,682,030	4,720	460	3,880	2,505,590	7,020	460	5,780	3,126,750	8,770	460	7,210
	0.688		17.5	606.07	1,387.0	1,849,180	5,190	620	4,270	2,754,590	7,730	620	6,360	3,437,480	9,650	620	7,940
	0.750		19.1	660.72	1,383.8	2,015,950	5,660	810	4,660	3,003,010	8,440	810	6,940	3,747,490	10,530	810	8,670
	0.812		20.6	711.85	1,380.8	2,171,940	6,110	1,010	5,030	3,235,390	9,100	1,010	7,490	4,037,470	11,360	1,010	9,350
	0.875		22.2	766.26	1,377.6	2,337,970	6,580	1,270	5,420	3,482,700	9,810	1,270	8,070	4,346,100	12,240	1,270	10,070
	0.938		23.8	820.55	1,374.4	2,503,600	7,060	1,570	5,810	3,729,430	10,520	1,570	8,650	4,654,000	13,120	1,570	10,800
	1.000		25.4	874.71	1,371.2	2,668,860	7,530	1,910	6,200	3,975,600	11,220	1,910	9,230	4,961,190	14,000	1,910	11,520
	1.062		27.0	928.75	1,368.0	2,833,720	8,010	2,300	6,590	4,221,190	11,930	2,300	9,820	5,267,670	14,890	2,300	12,250
	1.125		28.6	982.66	1,364.8	2,998,200	8,480	2,740	6,980	4,466,200	12,640	2,740	10,400	5,573,420	15,770	2,740	12,970
	1.188		30.2	1,036.44	1,361.6	3,162,300	8,960	3,240	7,370	4,710,650	13,340	3,240	10,980	5,878,470	16,650	3,240	13,700
	1.250		31.8	1,090.09	1,358.4	3,326,010	9,430	3,790	7,760	4,954,510	14,050	3,790	11,560	6,182,790	17,530	3,790	14,430
	1.500		38.1	1,300.14	1,345.8	3,966,880	11,300	6,050	9,300	5,909,170	16,830	6,560	13,850	7,374,120	21,010	6,570	17,280
58	0.375	1473	9.5	342.83	1,454.0	1,046,010	2,720	90	2,240	1,558,160	4,050	90	3,330	1,944,450	5,060	90	4,160
	0.406		10.3	371.49	1,452.4	1,133,470	2,950	110	2,430	1,688,450	4,390	110	3,610	2,107,040	5,480	110	4,510
	0.438		11.1	400.13	1,450.8	1,220,840	3,180	140	2,620	1,818,600	4,730	140	3,900	2,269,450	5,910	140	4,860
	0.469		11.9	428.73	1,449.2	1,308,120	3,410	170	2,800	1,948,600	5,080	170	4,180	2,431,680	6,330	170	5,210
	0.500		12.7	457.30	1,447.6	1,395,290	3,640	210	2,990	2,078,460	5,420	210	4,460	2,593,740	6,760	210	5,560
	0.562		14.3	514.35	1,444.4	1,569,360	4,090	300	3,370	2,337,750	6,100	300	5,020	2,917,310	7,610	300	6,260
	0.625		15.9	571.28	1,441.2	1,743,030	4,550	420	3,750	2,596,470	6,780	420	5,580	3,240,160	8,460	420	6,960
	0.688		17.5	628.07	1,438.0	1,916,330	5,010	560	4,120	2,854,610	7,460	560	6,140	3,562,300	9,310	560	7,660
	0.750		19.1	684.74	1,434.8	2,089,230	5,470	720	4,500	3,112,180	8,150	720	6,700	3,883,720	10,170	720	8,370
	0.812		20.6	737.76	1,431.8	2,250,990	5,900	910	4,850	3,353,130	8,790	910	7,230	4,184,410	10,960	910	9,020
	0.875		22.2	794.18	1,428.6	2,423,150	6,360	1,140	5,230	3,609,580	9,470	1,140	7,790	4,504,440	11,820	1,140	9,720
	0.938		23.8	850.48	1,425.4	2,594,920	6,810	1,410	5,610	3,865,470	10,150	1,410	8,350	4,823,760	12,670	1,410	10,420
	1.000		25.4	906.65	1,422.2	2,766,310	7,270	1,720	5,980	4,120,780	10,830	1,720	8,910	5,142,360	13,520	1,720	11,120
	1.062		27.0	962.70	1,419.0	2,937,320	7,730	2,070	6,360	4,375,510	11,520	2,070	9,480	5,460,250	14,370	2,070	11,830
	1.125		28.6	1,018.62	1,415.8	3,107,940	8,190	2,460	6,740	4,629,670	12,200	2,460	10,040	5,777,420	15,220	2,460	12,530
	1.188		30.2	1,074.42	1,412.6	3,278,180	8,650	2,910	7,120	4,883,260	12,880	2,910	10,600	6,093,870	16,070	2,910	13,230
	1.250		31.8	1,130.08	1,409.4	3,448,030	9,100	3,400	7,490	5,136,270	13,560	3,400	11,160	6,409,610	16,930	3,400	13,930
	1.500		38.1	1,348.05	1,396.8	4,113,070	10,910	5,580	8,980	6,126,940	16,250	5,900	13,370	7,645,870	20,280	5,900	16,690
60	0.250	1524	6.4	239.50	1,511.2	730,730	1,770	20	1,460	1,088,510	2,640	20	2,170	1,358,370	3,290	20	2,710
	0.281		7.1	265.57	1,509.8	810,280	1,960	30	1,620	1,207,010	2,930	30	2,410	1,506,240	3,650	30	3,010
	0.312		7.9	295.33	1,508.2	901,100	2,190	50	1,800	1,342,310	3,260	50	2,680	1,675,080	4,060	50	3,340
	0.344		8.7	325.07	1,506.6	991,830	2,410	60	1,980	1,477,460	3,590	60	2,950	1,843,730	4,480	60	3,680
	0.375		9.5	354.77	1,505.0	1,082,460	2,630	80	2,160	1,612,460	3,920	80	3,220	2,012,210	4,890	80	4,020
	0.406		10.3	384.45	1,503.4	1,173,000	2,850	100	2,350	1,747,330	4,250	100	3,490	2,180,510	5,300	100	4,360
	0.438		11.1	414.09	1,501.8	1,263,430	3,070	130	2,530	1,882,040	4,580	130	3,770	2,348,620	5,710	130	4,700
	0.469		11.9	443.70	1,500.2	1,353,780	3,290	160	2,710	2,016,620	4,910	160	4,040	2,516,560	6,120	160	5,040

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels						241				359				448			
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
	0.500		12.7	473.28	1,498.6	1,444,020	3,510	190	2,890	2,151,050	5,240	190	4,310	2,684,320	6,530	190	5,380
	0.562		14.3	532.34	1,495.4	1,624,220	3,960	270	3,260	2,419,490	5,890	270	4,850	3,019,310	7,360	270	6,050
	0.625		15.9	591.27	1,492.2	1,804,040	4,400	380	3,620	2,687,350	6,550	380	5,390	3,353,570	8,180	380	6,730
	0.688		17.5	650.08	1,489.0	1,983,470	4,840	500	3,990	2,954,640	7,210	500	5,940	3,687,120	9,000	500	7,410
	0.750		19.1	708.76	1,485.8	2,162,520	5,290	650	4,350	3,221,350	7,870	650	6,480	4,019,960	9,830	650	8,090
	0.812		20.6	763.66	1,482.8	2,330,030	5,700	820	4,690	3,470,870	8,490	820	6,990	4,331,340	10,600	820	8,720
	0.875		22.2	822.10	1,479.6	2,508,330	6,140	1,030	5,060	3,736,470	9,150	1,030	7,530	4,662,780	11,420	1,030	9,400
	0.938		23.8	880.41	1,476.4	2,686,240	6,590	1,270	5,420	4,001,500	9,810	1,270	8,070	4,993,520	12,240	1,270	10,070
	1.000		25.4	938.60	1,473.2	2,863,770	7,030	1,550	5,780	4,265,950	10,470	1,550	8,620	5,323,530	13,070	1,550	10,750
	1.062		27.0	996.66	1,470.0	3,040,920	7,470	1,870	6,150	4,529,830	11,130	1,870	9,160	5,652,830	13,890	1,870	11,430
	1.125		28.6	1,054.59	1,466.8	3,217,680	7,910	2,220	6,510	4,793,140	11,790	2,220	9,700	5,981,410	14,710	2,220	12,110
	1.188		30.2	1,112.39	1,463.6	3,394,050	8,360	2,620	6,880	5,055,870	12,450	2,620	10,240	6,309,280	15,540	2,620	12,780
	1.250		31.8	1,170.07	1,460.4	3,570,040	8,800	3,070	7,240	5,318,030	13,110	3,070	10,790	6,636,430	16,360	3,070	13,460
	1.500		38.1	1,395.96	1,447.8	4,259,260	10,540	5,140	8,680	6,344,700	15,710	5,320	12,920	7,917,620	19,600	5,320	16,130
62	0.375	1575	9.5	366.72	1,556.0	1,118,910	2,540	70	2,090	1,666,760	3,790	70	3,120	2,079,970	4,730	70	3,890
	0.406		10.3	397.40	1,554.4	1,212,520	2,760	90	2,270	1,806,200	4,110	90	3,380	2,253,970	5,130	90	4,220
	0.438		11.1	428.05	1,552.8	1,306,020	2,970	110	2,450	1,945,490	4,430	110	3,640	2,427,800	5,530	110	4,550
	0.469		11.9	458.66	1,551.2	1,399,440	3,190	140	2,620	2,084,640	4,750	140	3,910	2,601,440	5,920	140	4,870
	0.500		12.7	489.25	1,549.6	1,492,750	3,400	170	2,800	2,223,640	5,070	170	4,170	2,774,910	6,320	170	5,200
	0.562		14.3	550.32	1,546.4	1,679,090	3,830	250	3,150	2,501,220	5,700	250	4,690	3,121,300	7,120	250	5,860
	0.625		15.9	611.27	1,543.2	1,865,050	4,260	340	3,500	2,778,230	6,340	340	5,220	3,466,980	7,910	340	6,510
	0.688		17.5	672.09	1,540.0	2,050,620	4,690	450	3,860	3,054,660	6,980	450	5,740	3,811,940	8,710	450	7,170
	0.750		19.1	732.78	1,536.8	2,235,810	5,110	590	4,210	3,330,520	7,620	590	6,270	4,156,190	9,510	590	7,820
	0.812		20.6	789.57	1,533.8	2,409,070	5,520	740	4,540	3,588,610	8,220	740	6,760	4,478,270	10,250	740	8,440
	0.875		22.2	850.02	1,530.6	2,593,510	5,940	930	4,890	3,863,360	8,860	930	7,290	4,821,130	11,050	930	9,090
	0.938		23.8	910.34	1,527.4	2,777,560	6,370	1,150	5,240	4,137,530	9,490	1,150	7,810	5,163,270	11,850	1,150	9,750
	1.000		25.4	970.54	1,524.2	2,961,230	6,800	1,400	5,600	4,411,130	10,130	1,400	8,340	5,504,700	12,640	1,400	10,400
	1.062		27.0	1,030.61	1,521.0	3,144,520	7,230	1,690	5,950	4,684,160	10,770	1,690	8,860	5,845,410	13,440	1,690	11,060
	1.125		28.6	1,090.55	1,517.8	3,327,420	7,660	2,010	6,300	4,956,610	11,410	2,010	9,390	6,185,410	14,240	2,010	11,710
	1.188		30.2	1,150.37	1,514.6	3,509,930	8,090	2,370	6,650	5,228,490	12,050	2,370	9,910	6,524,680	15,030	2,370	12,370
	1.250		31.8	1,210.07	1,511.4	3,692,060	8,520	2,780	7,010	5,499,790	12,680	2,780	10,440	6,863,250	15,830	2,780	13,030
	1.500		38.1	1,443.88	1,498.8	4,405,450	10,200	4,720	8,400	6,562,470	15,200	4,810	12,510	8,189,380	18,970	4,810	15,610
64	0.375	1626	9.5	378.67	1,607.0	1,155,360	2,460	70	2,030	1,721,060	3,670	70	3,020	2,147,730	4,580	70	3,770
	0.406		10.3	410.35	1,605.4	1,252,040	2,670	80	2,200	1,865,070	3,980	80	3,270	2,327,440	4,970	80	4,090
	0.438		11.1	442.01	1,603.8	1,348,610	2,880	100	2,370	2,008,930	4,290	100	3,530	2,506,970	5,350	100	4,400
	0.469		11.9	473.63	1,602.2	1,445,100	3,090	130	2,540	2,152,650	4,600	130	3,780	2,686,320	5,740	130	4,720
	0.500		12.7	505.22	1,600.6	1,541,480	3,290	160	2,710	2,296,230	4,910	160	4,040	2,865,490	6,120	160	5,040
	0.562		14.3	568.30	1,597.4	1,733,960	3,710	220	3,050	2,582,960	5,530	220	4,550	3,223,300	6,890	220	5,670
	0.625		15.9	631.26	1,594.2	1,926,060	4,120	310	3,390	2,869,110	6,140	310	5,060	3,580,390	7,670	310	6,310
	0.688		17.5	694.09	1,591.0	2,117,770	4,540	410	3,740	3,154,680	6,760	410	5,560	3,936,760	8,440	410	6,940
	0.750		19.1	756.80	1,587.8	2,309,090	4,950	540	4,080	3,439,690	7,380	540	6,070	4,292,420	9,210	540	7,580
	0.812		20.6	815.47	1,584.8	2,488,110	5,340	680	4,400	3,706,360	7,960	680	6,550	4,625,200	9,930	680	8,170
	0.875		22.2	877.94	1,581.6	2,678,690	5,760	850	4,740	3,990,250	8,580	850	7,060	4,979,470	10,700	850	8,810
	0.938		23.8	940.27	1,578.4	2,868,880	6,170	1,050	5,080	4,273,570	9,200	1,050	7,570	5,333,030	11,480	1,050	9,440
	1.000		25.4	1,002.48	1,575.2	3,058,690	6,590	1,270	5,420	4,556,310	9,810	1,270	8,080	5,685,870	12,250	1,270	10,080
	1.062		27.0	1,064.56	1,572.0	3,248,120	7,000	1,530	5,760	4,838,480	10,430	1,530	8,580	6,037,990	13,020	1,530	10,710
	1.125		28.6	1,126.52	1,568.8	3,437,150	7,420	1,830	6,100	5,120,080	11,050	1,830	9,090	6,389,490	13,790	1,830	11,350
	1.188		30.2	1,188.35	1,565.6	3,625,810	7,830	2,150	6,450	5,401,100	11,670	2,150	9,600	6,740,090	14,560	2,150	11,980
	1.250		31.8	1,250.06	1,562.4	3,814,080	8,250	2,520	6,790	5,681,550	12,290	2,520	10,110	7,090,070	15,330	2,520	12,620
	1.500		38.1	1,491.79	1,549.8	4,551,640	9,880	4,330	8,130	6,780,240	14,720	4,370	12,110	8,461,130	18,370	4,370	15,120
66	0.375	1676	9.5	390.38	1,657.0	1,191,100	2,390	60	1,970	1,774,290	3,560	60	2,930	2,214,160	4,440	60	3,660
	0.406		10.3	423.05	1,655.4	1,290,780	2,590	80	2,130	1,922,790	3,860	80	3,180	2,399,460	4,820	80	3,960

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels		241								359				448			
OD	Wall Thickness	OD	Wall Thickness	Linear Mass	ID	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP	Pipe Body Yield Strength	Internal Yield Pressure	Collapse Pressure	MAOP
(in)	(in)	(mm)	(mm)	(kg/m)		(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)	(daN)	(kPa)	(kPa)	(kPa)
	0.438		11.1	455.69	1,653.8	1,390,370	2,790	100	2,300	2,071,130	4,160	100	3,420	2,584,590	5,190	100	4,270
	0.469		11.9	488.30	1,652.2	1,489,860	2,990	120	2,460	2,219,340	4,460	120	3,670	2,769,530	5,570	120	4,580
	0.500		12.7	520.88	1,650.6	1,589,260	3,200	140	2,630	2,367,400	4,760	140	3,920	2,954,300	5,940	140	4,890
	0.562		14.3	585.93	1,647.4	1,787,750	3,600	200	2,960	2,663,090	5,360	200	4,410	3,323,300	6,690	200	5,500
	0.625		15.9	650.86	1,644.2	1,985,870	4,000	280	3,290	2,958,200	5,960	280	4,900	3,691,570	7,440	280	6,120
	0.688		17.5	715.67	1,641.0	2,183,600	4,400	380	3,620	3,252,750	6,560	380	5,400	4,059,140	8,190	380	6,740
	0.750		19.1	780.35	1,637.8	2,380,940	4,810	490	3,950	3,546,720	7,160	490	5,890	4,425,990	8,930	490	7,350
	0.812		20.6	840.87	1,634.8	2,565,600	5,180	620	4,270	3,821,790	7,720	620	6,350	4,769,250	9,640	620	7,930
	0.875		22.2	905.31	1,631.6	2,762,200	5,590	770	4,600	4,114,650	8,320	770	6,850	5,134,710	10,380	770	8,550
	0.938		23.8	969.61	1,628.4	2,958,410	5,990	950	4,930	4,406,930	8,920	950	7,340	5,499,460	11,130	950	9,160
	1.000		25.4	1,033.80	1,625.2	3,154,240	6,390	1,160	5,260	4,698,640	9,520	1,160	7,830	5,863,490	11,880	1,160	9,780
	1.062		27.0	1,097.85	1,622.0	3,349,680	6,790	1,400	5,590	4,989,780	10,120	1,400	8,330	6,226,800	12,630	1,400	10,390
	1.125		28.6	1,161.78	1,618.8	3,544,740	7,200	1,660	5,920	5,280,340	10,720	1,660	8,820	6,589,390	13,380	1,660	11,010
	1.188		30.2	1,225.58	1,615.6	3,739,410	7,600	1,960	6,250	5,570,330	11,320	1,960	9,320	6,951,270	14,130	1,960	11,620
	1.250		31.8	1,289.26	1,612.4	3,933,700	8,000	2,300	6,580	5,859,740	11,920	2,300	9,810	7,312,440	14,880	2,300	12,240
	1.500		38.1	1,538.76	1,599.8	4,694,960	9,590	3,980	7,890	6,993,730	14,280	3,980	11,750	8,727,560	17,820	3,980	14,670
68	0.375	1727	9.5	402.33	1,708.0	1,227,550	2,320	50	1,910	1,828,590	3,460	50	2,840	2,281,920	4,310	50	3,550
	0.406		10.3	436.00	1,706.4	1,330,300	2,520	70	2,070	1,981,660	3,750	70	3,080	2,472,930	4,680	70	3,850
	0.438		11.1	469.65	1,704.8	1,432,960	2,710	90	2,230	2,134,580	4,040	90	3,320	2,663,760	5,040	90	4,150
	0.469		11.9	503.26	1,703.2	1,535,520	2,910	110	2,390	2,287,350	4,330	110	3,560	2,854,410	5,400	110	4,450
	0.500		12.7	536.85	1,701.6	1,637,980	3,100	130	2,550	2,439,990	4,620	130	3,800	3,044,880	5,770	130	4,740
	0.562		14.3	603.92	1,698.4	1,842,620	3,490	190	2,870	2,744,820	5,200	190	4,280	3,425,290	6,490	190	5,340
	0.625		15.9	670.86	1,695.2	2,046,880	3,880	260	3,200	3,049,080	5,780	260	4,760	3,804,980	7,220	260	5,940
	0.688		17.5	737.68	1,692.0	2,250,750	4,270	340	3,520	3,352,770	6,370	340	5,240	4,183,960	7,940	340	6,540
	0.750		19.1	804.37	1,688.8	2,454,230	4,660	450	3,840	3,655,890	6,950	450	5,720	4,562,220	8,670	450	7,130
	0.812		20.6	866.78	1,685.8	2,644,650	5,030	560	4,140	3,939,530	7,490	560	6,170	4,916,190	9,350	560	7,700
	0.875		22.2	933.22	1,682.6	2,847,380	5,420	710	4,460	4,241,540	8,080	710	6,650	5,293,060	10,080	710	8,290
	0.938		23.8	999.54	1,679.4	3,049,730	5,810	870	4,780	4,542,960	8,660	870	7,120	5,669,210	10,800	870	8,890
	1.000		25.4	1,065.74	1,676.2	3,251,700	6,200	1,060	5,100	4,843,820	9,240	1,060	7,600	6,044,650	11,530	1,060	9,490
	1.062		27.0	1,131.81	1,673.0	3,453,280	6,590	1,280	5,430	5,144,100	9,820	1,280	8,080	6,419,380	12,260	1,280	10,090
	1.125		28.6	1,197.75	1,669.8	3,654,480	6,980	1,520	5,750	5,443,810	10,400	1,520	8,560	6,793,390	12,980	1,520	10,680
	1.188		30.2	1,263.56	1,666.6	3,855,290	7,380	1,790	6,070	5,742,940	10,990	1,790	9,040	7,166,680	13,710	1,790	11,280
	1.250		31.8	1,329.25	1,663.4	4,055,710	7,770	2,100	6,390	6,041,500	11,570	2,100	9,520	7,539,250	14,440	2,100	11,880
	1.500		38.1	1,586.68	1,650.8	4,841,150	9,300	3,630	7,660	7,211,500	13,860	3,630	11,400	8,999,310	17,300	3,630	14,230
70	0.375	1778	9.5	414.27	1,759.0	1,264,000	2,250	50	1,850	1,882,890	3,360	50	2,760	2,349,680	4,190	50	3,450
	0.406		10.3	448.96	1,757.4	1,369,830	2,440	60	2,010	2,040,530	3,640	60	2,990	2,546,400	4,540	60	3,740
	0.438		11.1	483.61	1,755.8	1,475,550	2,630	80	2,170	2,198,020	3,920	80	3,230	2,742,930	4,890	80	4,030
	0.469		11.9	518.23	1,754.2	1,581,180	2,820	100	2,320	2,355,370	4,200	100	3,460	2,939,290	5,250	100	4,320
	0.500		12.7	552.82	1,752.6	1,686,710	3,010	120	2,480	2,512,570	4,490	120	3,690	3,135,470	5,600	120	4,610
	0.562		14.3	621.90	1,749.4	1,897,490	3,390	170	2,790	2,826,560	5,050	170	4,160	3,527,290	6,310	170	5,190
	0.625		15.9	690.86	1,746.2	2,107,890	3,770	240	3,100	3,139,960	5,620	240	4,620	3,918,390	7,010	240	5,770
	0.688		17.5	759.68	1,743.0	2,317,890	4,150	310	3,420	3,452,800	6,180	310	5,090	4,308,780	7,720	310	6,350
	0.750		19.1	828.39	1,739.8	2,527,520	4,530	410	3,730	3,765,050	6,750	410	5,550	4,698,450	8,420	410	6,930
	0.812		20.6	892.68	1,736.8	2,723,690	4,890	520	4,020	4,057,280	7,280	520	5,990	5,063,120	9,080	520	7,470
	0.875		22.2	961.14	1,733.6	2,932,560	5,270	650	4,330	4,368,420	7,840	650	6,450	5,451,400	9,790	650	8,050
	0.938		23.8	1,029.47	1,730.4	3,141,050	5,650	800	4,650	4,679,000	8,410	800	6,920	5,838,970	10,490	800	8,640
	1.000		25.4	1,097.68	1,727.2	3,349,160	6,030	970	4,960	4,989,000	8,980	970	7,390	6,225,820	11,200	970	9,220
	1.062		27.0	1,165.76	1,724.0	3,556,880	6,400	1,170	5,270	5,298,420	9,540	1,170	7,850	6,611,960	11,910	1,170	9,800
	1.125		28.6	1,233.71	1,720.8	3,764,220	6,780	1,390	5,580	5,607,280	10,110	1,390	8,320	6,997,380	12,610	1,390	10,380
	1.188		30.2	1,301.54	1,717.6	3,971,170	7,160	1,640	5,890	5,915,550	10,670	1,640	8,780	7,382,080	13,320	1,640	10,960
	1.250		31.8	1,369.24	1,714.4	4,177,730	7,540	1,920	6,210	6,223,260	11,240	1,920	9,250	7,766,070	14,020	1,920	11,540
	1.500		38.1	1,634.59	1,701.8	4,987,340	9,040	3,330	7,440	7,429,270	13,460	3,330	11,080	9,271,060	16,800	3,330	13,820

CSA Linepipe Performance Ratings

Metric Units



MAOP* at 0.72 Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels		241												359				448			
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)				
72	0.375	1829	9.5	426.22	1,810.0	1,300,450	2,190	50	1,800	1,937,190	3,260	50	2,690	2,417,440	4,070	50	3,350				
	0.406		10.3	461.91	1,808.4	1,409,350	2,380	60	1,950	2,099,400	3,540	60	2,910	2,619,860	4,420	60	3,630				
	0.438		11.1	497.57	1,806.8	1,518,140	2,560	70	2,110	2,261,460	3,810	70	3,140	2,822,110	4,760	70	3,920				
	0.469		11.9	533.19	1,805.2	1,626,840	2,740	90	2,260	2,423,390	4,090	90	3,360	3,024,170	5,100	90	4,200				
	0.500		12.7	568.79	1,803.6	1,735,440	2,930	110	2,410	2,585,160	4,360	110	3,590	3,226,050	5,440	110	4,480				
	0.562		14.3	639.88	1,800.4	1,952,360	3,300	160	2,710	2,908,290	4,910	160	4,040	3,629,290	6,130	160	5,040				
	0.625		15.9	710.85	1,797.2	2,168,890	3,670	220	3,020	3,230,840	5,460	220	4,490	4,031,800	6,820	220	5,610				
	0.688		17.5	781.69	1,794.0	2,385,040	4,040	290	3,320	3,552,820	6,010	290	4,950	4,433,600	7,500	290	6,170				
	0.750		19.1	852.41	1,790.8	2,600,800	4,400	380	3,620	3,874,220	6,560	380	5,400	4,834,690	8,190	380	6,740				
	0.812		20.6	918.59	1,787.8	2,802,730	4,750	470	3,910	4,175,020	7,080	470	5,820	5,210,050	8,830	470	7,270				
	0.875		22.2	989.06	1,784.6	3,017,740	5,120	590	4,210	4,495,310	7,630	590	6,270	5,609,750	9,520	590	7,830				
	0.938		23.8	1,059.40	1,781.4	3,232,370	5,490	730	4,520	4,815,030	8,180	730	6,730	6,008,730	10,200	730	8,390				
	1.000		25.4	1,129.62	1,778.2	3,446,620	5,860	890	4,820	5,134,180	8,720	890	7,180	6,406,990	10,890	890	8,960				
	1.062		27.0	1,199.71	1,775.0	3,660,480	6,230	1,070	5,120	5,452,750	9,270	1,070	7,630	6,804,540	11,570	1,070	9,520				
	1.125		28.6	1,269.68	1,771.8	3,873,950	6,590	1,280	5,430	5,770,740	9,820	1,280	8,080	7,201,370	12,260	1,280	10,090				
	1.188		30.2	1,339.52	1,768.6	4,087,040	6,960	1,510	5,730	6,088,170	10,370	1,510	8,540	7,597,490	12,950	1,510	10,650				
	1.250		31.8	1,409.23	1,765.4	4,299,750	7,330	1,760	6,030	6,405,020	10,920	1,760	8,990	7,992,890	13,630	1,760	11,220				
	1.500		38.1	1,682.50	1,752.8	5,133,520	8,790	3,050	7,230	7,647,030	13,090	3,050	10,770	9,542,820	16,330	3,050	13,440				
74	0.406	1880	10.3	474.86	1,859.4	1,448,870	2,310	50	1,900	2,158,270	3,440	50	2,830	2,693,330	4,300	50	3,530				
	0.438		11.1	511.53	1,857.8	1,560,730	2,490	70	2,050	2,324,910	3,710	70	3,050	2,901,280	4,630	70	3,810				
	0.469		11.9	548.16	1,856.2	1,672,500	2,670	80	2,200	2,491,400	3,980	80	3,270	3,109,050	4,960	80	4,080				
	0.500		12.7	584.76	1,854.6	1,784,170	2,850	100	2,340	2,657,750	4,240	100	3,490	3,316,640	5,300	100	4,360				
	0.562		14.3	657.87	1,851.4	2,007,230	3,210	140	2,640	2,990,020	4,780	140	3,930	3,731,280	5,960	140	4,910				
	0.625		15.9	730.85	1,848.2	2,229,900	3,570	200	2,940	3,321,720	5,310	200	4,370	4,145,210	6,630	200	5,460				
	0.688		17.5	803.70	1,845.0	2,452,190	3,930	270	3,230	3,652,840	5,850	270	4,810	4,558,420	7,300	270	6,010				
	0.750		19.1	876.43	1,841.8	2,674,090	4,280	350	3,530	3,983,390	6,380	350	5,250	4,970,920	7,970	350	6,550				
	0.812		20.6	944.49	1,838.8	2,881,770	4,620	440	3,800	4,292,760	6,880	440	5,660	5,356,980	8,590	440	7,070				
	0.875		22.2	1,016.98	1,835.6	3,102,920	4,980	550	4,100	4,622,200	7,420	550	6,100	5,768,090	9,260	550	7,620				
	0.938		23.8	1,089.33	1,832.4	3,323,690	5,340	670	4,390	4,951,060	7,950	670	6,540	6,178,490	9,930	670	8,170				
	1.000		25.4	1,161.56	1,829.2	3,544,080	5,700	820	4,690	5,279,350	8,490	820	6,980	6,588,160	10,590	820	8,720				
	1.062		27.0	1,233.67	1,826.0	3,764,080	6,060	990	4,980	5,607,070	9,020	990	7,420	6,997,120	11,260	990	9,270				
	1.125		28.6	1,305.65	1,822.8	3,983,690	6,420	1,180	5,280	5,934,210	9,560	1,180	7,860	7,405,370	11,930	1,180	9,810				
	1.188		30.2	1,377.50	1,819.6	4,202,920	6,770	1,390	5,570	6,260,780	10,090	1,390	8,300	7,812,900	12,590	1,390	10,360				
	1.250		31.8	1,449.22	1,816.4	4,421,760	7,130	1,620	5,870	6,586,770	10,630	1,620	8,740	8,219,710	13,260	1,620	10,910				
	1.500		38.1	1,730.42	1,803.8	5,279,710	8,550	2,810	7,030	7,864,800	12,730	2,810	10,480	9,814,570	15,890	2,810	13,070				
76	0.406	1930	10.3	487.56	1,909.4	1,487,610	2,250	50	1,850	2,215,990	3,350	50	2,760	2,765,360	4,180	50	3,440				
	0.438		11.1	525.21	1,907.8	1,602,490	2,430	60	2,000	2,387,110	3,610	60	2,970	2,978,900	4,510	60	3,710				
	0.469		11.9	562.83	1,906.2	1,717,270	2,600	80	2,140	2,558,080	3,870	80	3,190	3,192,260	4,830	80	3,980				
	0.500		12.7	600.42	1,904.6	1,831,950	2,780	90	2,280	2,728,920	4,130	90	3,400	3,405,450	5,160	90	4,250				
	0.562		14.3	675.50	1,901.4	2,061,020	3,120	130	2,570	3,070,150	4,650	130	3,830	3,831,280	5,810	130	4,780				
	0.625		15.9	750.45	1,898.2	2,289,710	3,470	180	2,860	3,410,820	5,180	180	4,260	4,256,400	6,460	180	5,310				
	0.688		17.5	825.28	1,895.0	2,518,020	3,820	250	3,150	3,750,910	5,700	250	4,690	4,680,800	7,110	250	5,850				
	0.750		19.1	899.98	1,891.8	2,745,940	4,170	320	3,430	4,090,420	6,220	320	5,120	5,104,480	7,760	320	6,380				
	0.812		20.6	969.89	1,888.8	2,959,260	4,500	400	3,700	4,408,200	6,710	400	5,520	5,501,040	8,370	400	6,890				
	0.875		22.2	1,044.35	1,885.6	3,186,440	4,850	500	3,990	4,746,600	7,230	500	5,950	5,923,330	9,020	500	7,420				
	0.938		23.8	1,118.68	1,882.4	3,413,220	5,200	620	4,280	5,084,430	7,750	620	6,370	6,344,910	9,670	620	7,960				
	1.000		25.4	1,192.88	1,879.2	3,639,630	5,550	760	4,570	5,421,680	8,270	760	6,800	6,765,780	10,320	760	8,490				
	1.062		27.0	1,266.96	1,876.0	3,865,640	5,900	910	4,850	5,758,370	8,790	910	7,230	7,185,930	10,970	910	9,020				
	1.125		28.6	1,340.91	1,872.8	4,091,280	6,250	1,090	5,140	6,094,470	9,310	1,090	7,660	7,605,360	11,620	1,090	9,560				
	1.188		30.2	1,414.73	1,869.6	4,316,520	6,600	1,280	5,430	6,430,010	9,830	1,280	8,090	8,024,080	12,270	1,280	10,090				
	1.250		31.8	1,488.43	1,866.4	4,541,390	6,950	1,500	5,720	6,764,970	10,350	1,500	8,520	8,442,080	12,920	1,500	10,630				
	1.500		38.1	1,777.39	1,853.8	5,423,040	8,330	2,590	6,850	8,078,300	12,400	2,590	10,210	10,081,000	15,480	2,590	12,740				

CSA Linepipe Performance Ratings

Metric Units



MAOP* at **0.72** Safety Factor *MAOP - Maximum Allowable Operating Pressure

Labels					241				359				448				
OD (in)	Wall Thickness (in)	OD (mm)	Wall Thickness (mm)	Linear Mass (kg/m)	ID	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)	Pipe Body Yield Strength (daN)	Internal Yield Pressure (kPa)	Collapse Pressure (kPa)	MAOP (kPa)
78	0.406	1981	10.3	500.52	1,960.4	1,527,130	2,190	50	1,800	2,274,860	3,270	50	2,690	2,838,820	4,080	50	3,350
	0.438		11.1	539.17	1,958.8	1,645,080	2,360	60	1,940	2,450,550	3,520	60	2,900	3,058,070	4,390	60	3,610
	0.469		11.9	577.80	1,957.2	1,762,930	2,530	70	2,080	2,626,100	3,770	70	3,110	3,277,140	4,710	70	3,880
	0.500		12.7	616.39	1,955.6	1,880,680	2,700	90	2,220	2,801,510	4,030	90	3,310	3,496,030	5,030	90	4,140
	0.562		14.3	693.48	1,952.4	2,115,890	3,040	120	2,510	3,151,890	4,540	120	3,730	3,933,280	5,660	120	4,660
	0.625		15.9	770.44	1,949.2	2,350,720	3,390	170	2,790	3,501,700	5,040	170	4,150	4,369,810	6,290	170	5,180
	0.688		17.5	847.28	1,946.0	2,585,170	3,730	230	3,070	3,850,930	5,550	230	4,570	4,805,620	6,930	230	5,700
	0.750		19.1	924.00	1,942.8	2,819,220	4,070	300	3,350	4,199,590	6,060	300	4,980	5,240,710	7,560	300	6,220
	0.812		20.6	995.80	1,939.8	3,038,300	4,390	370	3,610	4,525,940	6,530	370	5,380	5,647,970	8,150	370	6,710
	0.875		22.2	1,072.27	1,936.6	3,271,620	4,730	470	3,890	4,873,490	7,040	470	5,790	6,081,680	8,790	470	7,230
	0.938		23.8	1,148.61	1,933.4	3,504,540	5,070	580	4,170	5,220,460	7,550	580	6,210	6,514,670	9,420	580	7,750
	1.000		25.4	1,224.82	1,930.2	3,737,090	5,410	700	4,450	5,566,860	8,060	700	6,630	6,946,950	10,050	700	8,270
	1.062		27.0	1,300.91	1,927.0	3,969,240	5,750	840	4,730	5,912,690	8,560	840	7,050	7,378,510	10,690	840	8,790
	1.125		28.6	1,376.87	1,923.8	4,201,010	6,090	1,000	5,010	6,257,940	9,070	1,000	7,460	7,809,350	11,320	1,000	9,310
	1.188		30.2	1,452.71	1,920.6	4,432,400	6,430	1,180	5,290	6,602,620	9,580	1,180	7,880	8,239,480	11,950	1,180	9,830
	1.250		31.8	1,528.42	1,917.4	4,663,400	6,770	1,380	5,570	6,946,730	10,080	1,380	8,300	8,668,900	12,590	1,380	10,360
	1.500		38.1	1,825.30	1,904.8	5,569,220	8,110	2,390	6,670	8,296,070	12,080	2,390	9,940	10,352,750	15,080	2,390	12,410
80	0.406	2032	10.3	513.47	2,011.4	1,566,650	2,140	40	1,760	2,333,730	3,180	40	2,620	2,912,290	3,970	40	3,270
	0.438		11.1	553.13	2,009.8	1,687,670	2,300	50	1,900	2,514,000	3,430	50	2,820	3,137,240	4,280	50	3,520
	0.469		11.9	592.76	2,008.2	1,808,590	2,470	70	2,030	2,694,120	3,680	70	3,030	3,362,020	4,590	70	3,780
	0.500		12.7	632.36	2,006.6	1,929,410	2,640	80	2,170	2,874,100	3,930	80	3,230	3,586,620	4,900	80	4,030
	0.562		14.3	711.46	2,003.4	2,170,760	2,970	110	2,440	3,233,620	4,420	110	3,640	4,035,270	5,520	110	4,540
	0.625		15.9	790.44	2,000.2	2,411,730	3,300	160	2,720	3,592,580	4,920	160	4,050	4,483,210	6,130	160	5,050
	0.688		17.5	869.29	1,997.0	2,652,310	3,630	210	2,990	3,950,950	5,410	210	4,450	4,930,440	6,750	210	5,560
	0.750		19.1	948.01	1,993.8	2,892,510	3,960	270	3,260	4,308,760	5,910	270	4,860	5,376,950	7,370	270	6,060
	0.812		20.6	1,021.70	1,990.8	3,117,350	4,280	340	3,520	4,643,680	6,370	340	5,240	5,794,900	7,950	340	6,540
	0.875		22.2	1,100.18	1,987.6	3,356,800	4,610	430	3,790	5,000,370	6,860	430	5,650	6,240,020	8,570	430	7,050
	0.938		23.8	1,178.54	1,984.4	3,595,860	4,940	530	4,060	5,356,490	7,360	530	6,050	6,684,430	9,180	530	7,560
	1.000		25.4	1,256.76	1,981.2	3,834,550	5,270	650	4,340	5,712,040	7,850	650	6,460	7,128,120	9,800	650	8,060
	1.062		27.0	1,334.87	1,978.0	4,072,840	5,600	780	4,610	6,067,010	8,350	780	6,870	7,571,090	10,420	780	8,570
	1.125		28.6	1,412.84	1,974.8	4,310,750	5,940	930	4,880	6,421,410	8,840	930	7,280	8,013,350	11,030	930	9,080
	1.188		30.2	1,490.69	1,971.6	4,548,280	6,270	1,090	5,160	6,775,240	9,340	1,090	7,680	8,454,890	11,650	1,090	9,590
	1.250		31.8	1,568.41	1,968.4	4,785,420	6,600	1,280	5,430	7,128,490	9,830	1,280	8,090	8,895,710	12,270	1,280	10,100
	1.500		38.1	1,873.22	1,955.8	5,715,410	7,910	2,220	6,510	8,513,830	11,780	2,220	9,690	10,624,500	14,700	2,220	12,100