



MID-SOUTH
TECHNOLOGIES
CONTROL LINE

Mid-South Control Line

Theoretical Mechanical Calculations
Other alloys and sizes available upon request.



Size/Type			Welded					
OD	WT	Alloy	Min Tensile Strength (psi)	Min Yield Strength (psi)	Theoretical Collapse Pressure ¹ (psi)	Theoretical Burst Pressure ² (psi)	Theoretical Working Pressure ³ (psi)	Recommended Test Pressure (psi)
0.250	0.035	316L	75000	30000	6600	21100	6400	7700
		825	85000	35000	7700	24000	7500	8900
		825 E	95000	60000	14300	26800	13800	15300
		625	120000	60000	26400	33800	25500	15300
		2205	95000	70000	15400	26800	14900	17800
0.250	0.049	316L	75000	30000	8700	30700	9300	11100
		825	85000	35000	10100	34800	10800	13000
		825 E	95000	60000	18800	38900	20100	22200
		625	120000	60000	34800	49100	37000	22200
		2205	95000	70000	20300	38900	21600	25000
0.250	0.065	316L	75000	30000	10700	41900	12600	15100
		825	85000	35000	12500	47400	14700	17700
		825 E	95000	60000	23300	53000	27400	25000
		625	120000	60000	43000	67000	50500	25000
		2205	95000	70000	25100	53000	29500	25000
0.250	0.083	316L	75000	30000	12500	54000	16300	19500
		825	85000	35000	14600	61300	19000	22800
		825 E	95000	60000	27200	68500	35300	25000
		625	120000	60000	50200	86500	65100	25000
		2205	95000	70000	29300	68500	38000	25000
0.375	0.035	316L	75000	30000	4600	13600	4100	5000
		825	85000	35000	5300	15400	4800	5800
		825 E	95000	60000	10000	17200	8900	9900
		625	120000	60000	18400	21800	16500	9900
		2205	95000	70000	10700	17200	9600	11500
0.375	0.049	316L	75000	30000	6200	19600	5900	7100
		825	85000	35000	7200	22200	6900	8300
		825 E	95000	60000	13400	24800	12800	14200
		625	120000	60000	24900	31400	23700	14200
		2205	95000	70000	14500	24800	13800	16500
0.375	0.065	316L	75000	30000	7900	26800	8100	9700
		825	85000	35000	9200	30300	9400	11300
		825 E	95000	60000	17100	33900	17500	19400
		625	120000	60000	31600	42800	32300	19400
		2205	95000	70000	18400	33900	18900	22600
0.375	0.083	316L	75000	30000	9500	35100	10600	12700
		825	85000	35000	11100	39800	12400	14800
		825 E	95000	60000	20700	44500	22900	25000
		625	120000	60000	38200	56200	42300	25000
		2205	95000	70000	22300	44500	24700	25000
0.500	0.035	316L	75000	30000	3500	10000	3100	3700
		825	85000	35000	4100	11300	3600	4300
		825 E	95000	60000	7600	12700	6600	7300
		625	120000	60000	14100	16000	12100	7300
		2205	95000	70000	8200	12700	7100	8500
0.500	0.049	316L	75000	30000	4800	14300	4400	5200
		825	85000	35000	5600	16200	5100	6100
		825 E	95000	60000	10400	18200	9400	10400
		625	120000	60000	19300	23000	17300	10400
		2205	95000	70000	11200	18200	10100	12100
0.500	0.065	316L	75000	30000	6200	19500	5900	7100
		825	85000	35000	7200	22100	6900	8300
		825 E	95000	60000	13400	24700	12800	14100
		625	120000	60000	24800	31200	23500	14100
		2205	95000	70000	14400	24700	13800	16500
0.500	0.083	316L	75000	30000	7600	25500	7700	9300
		825	85000	35000	8900	28900	9000	10800
		825 E	95000	60000	16500	32300	16700	18500
		625	120000	60000	30500	40800	30800	18500
		2205	95000	70000	17800	32300	18000	21500

¹Theoretical Collapse pressure based on nominal OD, minimum wall thickness, and minimum yield strength.

²Theoretical Burst pressure based on nominal OD, minimum wall thickness, and minimum tensile strength.

³Theoretical working pressure utilizes a 1.33 S.F. from theoretical Yield Point

Test pressures above 25ksi are available upon request.

E - "Enhanced" properties increased yield strengths, coils without orbital welds at final size.