



MID-SOUTH
TECHNOLOGIES
CONTROL LINE

Mid-South Control Line

Theoretical Mechanical Calculations
Other alloys and sizes available upon request.



Size/Type		Seamless						
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	6500	20600	6200	7500
		825	85000	35000	7600	23400	7300	8700
		825 E	-	-	-	-	-	-
		625	120000	60000	13000	33000	12500	14900
		2205	-	-	-	-	-	-
0.250	0.049	316L	75000	30000	8500	29200	8800	10600
		825	85000	35000	10000	33100	10300	12300
		825 E	-	-	-	-	-	-
		625	120000	60000	17200	46800	17700	21100
		2205	-	-	-	-	-	-
0.250	0.065	316L	75000	30000	10600	37500	11300	13600
		825	85000	35000	12400	42500	13200	15800
		825 E	-	-	-	-	-	-
		625	120000	60000	21200	60000	22600	25000
		2205	-	-	-	-	-	-
0.250	0.083	316L	75000	30000	12400	45500	13700	16400
		825	85000	35000	14500	51600	16000	19200
		825 E	-	-	-	-	-	-
		625	120000	60000	24900	72800	27400	25000
		2205	-	-	-	-	-	-
0.375	0.035	316L	75000	30000	4500	13300	4000	4900
		825	85000	35000	5300	15100	4700	5700
		825 E	-	-	-	-	-	-
		625	120000	60000	9100	21300	8100	9700
		2205	-	-	-	-	-	-
0.375	0.049	316L	75000	30000	6100	19200	5800	7000
		825	85000	35000	7200	21800	6800	8100
		825 E	-	-	-	-	-	-
		625	120000	60000	12300	30700	11600	13900
		2205	-	-	-	-	-	-
0.375	0.065	316L	75000	30000	7800	26200	7900	9500
		825	85000	35000	9100	29700	9300	11100
		825 E	-	-	-	-	-	-
		625	120000	60000	15600	42000	15800	19000
		2205	-	-	-	-	-	-
0.375	0.083	316L	75000	30000	9400	32800	9900	11900
		825	85000	35000	11000	37100	11600	13800
		825 E	-	-	-	-	-	-
		625	120000	60000	19000	52500	19800	23700
		2205	-	-	-	-	-	-
0.500	0.035	316L	75000	30000	3500	9800	3000	3600
		825	85000	35000	4100	11100	3500	4200
		825 E	-	-	-	-	-	-
		625	120000	60000	7000	15700	6000	7200
		2205	-	-	-	-	-	-
0.500	0.049	316L	75000	30000	4700	14100	4300	5100
		825	85000	35000	5500	15900	5000	6000
		825 E	-	-	-	-	-	-
		625	120000	60000	9500	22500	8500	10200
		2205	-	-	-	-	-	-
0.500	0.065	316L	75000	30000	6100	19100	5800	7000
		825	85000	35000	7100	21700	6800	8100
		825 E	-	-	-	-	-	-
		625	120000	60000	12300	30700	11600	13900
		2205	-	-	-	-	-	-
0.500	0.083	316L	75000	30000	7500	25200	7600	9100
		825	85000	35000	8800	28500	2800	10600
		825 E	-	-	-	-	-	-
		625	120000	60000	15100	40300	15200	18200
		2205	-	-	-	-	-	-

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

²Theoretical Burst pressure based on max 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.