



# SEAMLESS PIPE

Please note: We specialize in non - standard items.

If you require any size, length or grade not on this list, please do not hesitate to contact our sales team.

NOMINAL BORE		SCHEDULE	OUTSIDE DIAMETER		WALL THICKNESS	INTERNAL DIAMETER	MASS APPROX	MANUFACTURING STANDARD	MATERIAL GRADE	PRESSURE / TEMPERATURE RATINGS FOR SEAMLESS CARBON STEEL PIPE TO ASTM A106 GRADE B							
										MAXIMUM ALLOWABLE PRESSURE/TEMPERATURE RATINGS IN MPa FOR CHEMICAL PLANT AND PETROLEUM REFINERY PIPING SYSTEMS TO ANSI/ASME B31.3a -1981. PLEASE NOTE: THIS IS A GENERAL GUIDE ONLY. TO ESTABLISH EXACT WORKING PRESSURES PLEASE REFER TO ASME B31.3							
NB		STRENGTH / No.	TEMPERATURE °C														
DN	NPS		ALLOWABLE STRESS MPa														
MM	INCH	MM	INCH	(MM)	(MM)	KG/M											
6	¼	STD / 40	10.3	0.41	1.73	6.84	0.36	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
		XS / 80			2.41	5.48	0.46	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
8	¼	STD / 40	13.7	0.539	2.24	9.22	0.63	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
		XS / 80			3.02	7.66	0.80	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
10	¾	STD / 40	17.1	0.673	2.31	12.48	0.85	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
		XS / 80			3.20	10.70	1.10	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
15	½	STD / 40	21.3	0.838	2.77	15.76	1.27	ASTM A106/API 5L	B	34.41	34.41	32.52	29.25	28.91	22.37	18.58	14.97
		XS / 80			3.73	13.84	1.62	ASTM A106/API 5L	B	48.09	48.09	45.44	40.87	40.39	31.26	25.96	20.91
		160			4.78	11.74	1.94	ASTM A106/API 5L	B	62.83	62.83	59.37	53.40	52.77	40.83	33.92	27.33
		XXS			7.47	6.36	2.56	ASTM A106/API 5L	B	98.24	98.24	92.83	83.50	82.52	63.85	53.05	42.73
20	¾	STD / 40	26.7	1.051	2.87	20.96	1.68	ASTM A106/API 5L	B	28.07	28.07	26.52	23.86	23.57	18.24	15.15	12.20
		XS / 80			3.91	18.88	2.19	ASTM A106/API 5L	B	39.41	39.41	37.24	33.50	33.10	25.61	21.28	17.14
		160			5.56	15.58	2.89	ASTM A106/API 5L	B	58.15	58.15	54.95	49.42	48.84	37.79	31.39	25.29
		XXS			7.82	11.06	3.64	ASTM A106/API 5L	B	83.10	83.10	78.53	70.64	69.80	54.02	44.88	36.15
25	1	STD / 40	33.4	1.315	3.38	26.64	2.50	ASTM A106/API 5L	B	26.25	26.25	24.80	22.31	22.04	17.06	14.17	11.41
		XS / 80			4.55	24.30	3.23	ASTM A106/API 5L	B	36.28	36.28	34.28	30.86	30.47	23.58	19.59	15.78
		160			6.35	20.70	4.23	ASTM A106/API 5L	B	52.48	52.48	49.59	44.60	44.08	34.11	28.33	22.82
		XXS			9.09	15.22	5.45	ASTM A106/API 5L	B	77.03	77.03	72.79	65.47	64.70	50.07	41.59	33.50
32	1¼	STD / 40	42.2	1.661	3.56	35.08	3.38	ASTM A106/API 5L	B	21.61	21.61	20.42	18.36	18.15	14.04	11.67	9.40
		XS / 80			4.85	32.50	4.46	ASTM A106/API 5L	B	30.17	30.17	28.51	25.65	25.34	19.61	16.29	13.12
		160			6.35	29.50	5.61	ASTM A106/API 5L	B	40.59	40.59	38.36	34.50	34.09	26.38	21.92	16.65
		XXS			9.70	22.80	7.74	ASTM A106/API 5L	B	64.60	64.60	61.04	54.90	54.26	41.98	34.88	28.09
40	1½	STD / 40	48.3	1.900	3.68	40.94	4.05	ASTM A106/API 5L	B	19.44	19.44	18.37	16.52	16.32	12.63	10.50	8.45
		XS / 80			5.08	38.14	5.40	ASTM A106/API 5L	B	27.40	27.40	25.90	23.29	23.01	17.81	14.80	11.91
		160			7.14	34.02	7.22	ASTM A106/API 5L	B	39.78	39.78	37.59	33.81	33.41	25.85	21.48	17.30
		XXS			10.16	27.98	9.55	ASTM A106/API 5L	B	58.77	58.77	55.54	49.96	49.37	38.20	31.74	25.56
50	2	STD / 40	60.3	2.375	3.91	52.48	5.43	ASTM A106/API 5L	B	16.37	16.37	15.46	13.92	13.75	10.64	8.84	7.12
		XS / 80			5.54	49.22	7.49	ASTM A106/API 5L	B	23.65	23.65	22.35	20.10	19.87	15.37	12.77	10.28
		160			8.74	42.82	11.09	ASTM A106/API 5L	B	38.86	38.86	36.73	33.03	32.65	25.26	20.98	16.90
		XXS			11.07	38.16	13.45	ASTM A106/API 5L	B	50.79	50.79	48.00	43.17	42.67	33.01	27.42	22.09
65	2½	STD / 40	73.0	2.875	5.16	62.68	8.62	ASTM A106/API 5L	B	17.91	17.91	16.92	15.22	15.04	11.64	9.67	7.79
		XS / 80			7.01	58.98	11.40	ASTM A106/API 5L	B	24.81	24.81	23.44	21.09	20.84	16.12	13.40	10.79
		160			9.52	53.96	14.90	ASTM A106/API 5L	B	34.61	34.61	32.71	29.42	29.07	22.50	18.69	15.05
		XXS			14.02	44.96	20.38	ASTM A106/API 5L	B	53.08	53.08	50.15	45.11	44.58	34.49	28.66	23.08
80	3	STD / 40	88.9	3.500	5.49	77.92	11.29	ASTM A106/API 5L	B	15.55	15.55	14.69	13.22	13.06	10.10	8.39	6.76
		XS / 80			7.62	73.66	15.25	ASTM A106/API 5L	B	21.98	21.98	20.78	18.69	18.47	14.29	11.87	9.56
		160			11.12	66.64	21.30	ASTM A106/API 5L	B	33.07	33.07	31.25	28.11	27.78	21.49	17.85	14.38
		XXS			15.24	58.42	27.66	ASTM A106/API 5L	B	46.97	46.97	44.39	39.92	39.45	30.53	25.36	20.43
90	3½	STD / 40	101.6	4.000	5.74	90.12	13.57	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
		XS/80			8.07	85.44	18.62	ASTM A106/API 5L	B	-	-	-	-	-	-	-	-
100	4	STD / 40	114.3	4.500	6.02	102.26	16.07	ASTM A106/API 5L	B	13.18	13.18	12.46	11.21	11.07	8.57	7.12	5.73
		XS / 80			8.56	97.18	22.31	ASTM A106/API 5L	B	19.05	19.05	18.01	16.19	16.01	12.38	12.09	8.28

Please note: We specialize in non - standard items.

If you require any size, length or grade not on this list, please do not hesitate to contact our sales team.

NOMINAL BORE		SCHEDULE	OUTSIDE DIAMETER		WALL THICKNESS	INTERNAL DIAMETER	MASS APPROX	MANUFACTURING STANDARD	MATERIAL GRADE	PRESSURE / TEMPERATURE RATINGS FOR SEAMLESS CARBON STEEL PIPE TO ASTM A106 GRADE B							
										MAXIMUM ALLOWABLE PRESSURE/TEMPERATURE RATINGS IN MPa FOR CHEMICAL PLANT AND PETROLEUM REFINERY PIPING SYSTEMS TO ANSI/ASME B31.3a -1981. PLEASE NOTE: THIS IS A GENERAL GUIDE ONLY. TO ESTABLISH EXACT WORKING PRESSURES PLEASE REFER TO ASME B31.3							
NB		STRENGTH / No.	MM	INCH	(MM)	(MM)	KG/M			TEMPERATURE °C							
DN	NPS									ALLOWABLE STRESS MPa							
MM	INCH									137.80	137.80	130.22	117.13	115.75	89.57	74.41	59.94
100	4	120	114.3	4.500	11.12	92.04	28.25	ASTM A106/API 5L	B	25.19	25.19	23.80	21.40	21.55	16.37	13.60	10.95
		160			13.49	87.32	33.49	ASTM A106/API 5L	B	31.01	31.01	29.31	26.36	26.05	20.16	16.75	13.20
		XXS			17.12	80.06	40.98	ASTM A106/API 5L	B	40.34	40.34	38.12	34.29	33.89	26.23	21.78	17.54
125	5	STD / 40	141.3	5.563	6.55	128.20	21.78	ASTM A106/API 5L	B	11.56	11.56	10.92	9.82	9.70	7.51	6.24	5.03
		XS / 80			9.52	122.26	30.92	ASTM A106/API 5L	B	17.06	17.06	16.12	14.50	14.33	11.09	9.21	7.42
		120			12.70	115.90	40.24	ASTM A106/API 5L	B	23.13	23.13	21.85	19.65	19.43	15.03	12.49	10.05
		160			15.88	109.54	49.05	ASTM A106/API 5L	B	29.40	29.40	27.78	24.99	24.70	19.11	15.88	12.79
		XXS			19.05	103.2	57.38	ASTM A106/API 5L	B	35.89	35.89	33.92	30.51	30.15	23.33	19.38	15.62
150	6	STD / 40	168.3	6.625	7.11	154.08	28.26	ASTM A106/API 5L	B	10.50	10.50	9.92	8.92	8.81	6.82	5.67	4.56
		XS / 80			10.97	146.36	42.56	ASTM A106/API 5L	B	16.47	16.47	15.57	14.00	13.84	10.70	8.89	7.16
		120			14.27	139.76	54.17	ASTM A106/API 5L	B	21.74	21.74	20.55	18.48	18.26	14.13	11.74	9.46
		160			18.26	131.82	67.49	ASTM A106/API 5L	B	28.32	28.32	26.76	24.07	23.78	18.41	15.29	12.31
		XXS			21.94	124.40	79.10	ASTM A106/API 5L	B	34.60	34.60	32.70	29.42	29.06	22.49	18.68	15.05
200	8	20	219.1	8.625	6.35	206.40	33.31	ASTM A106/API 5L	B	7.13	7.13	6.74	6.06	5.99	4.63	3.85	3.10
		30			7.04	205.02	36.79	ASTM A106/API 5L	B	7.92	7.92	7.48	6.73	6.65	5.14	4.27	3.44
		STD / 40			8.18	202.74	42.53	ASTM A106/API 5L	B	9.24	9.24	8.73	7.85	7.76	6.00	4.99	4.02
		60			10.31	198.48	53.10	ASTM A106/API 5L	B	11.74	11.74	11.09	9.97	9.86	7.62	6.33	5.10
		XS / 80			12.70	193.7	64.63	ASTM A106/API 5L	B	14.57	14.57	13.76	12.38	12.23	9.47	7.86	6.33
		100			15.09	188.98	75.82	ASTM A106/API 5L	B	17.45	17.45	16.48	14.83	14.65	11.34	9.42	7.59
		120			18.26	182.62	90.36	ASTM A106/API 5L	B	21.34	21.34	20.17	18.14	17.93	13.87	11.52	9.28
		140			20.62	177.86	100.86	ASTM A106/API 5L	B	24.30	24.30	22.97	20.65	20.41	15.79	13.12	10.56
		XXS			22.22	174.66	107.78	ASTM A106/API 5L	B	26.33	26.33	24.88	22.38	22.12	17.11	14.22	11.45
		160			23.01	173.08	111.16	ASTM A106/API 5L	B	27.34	27.34	25.83	23.24	22.96	17.76	14.76	11.89
250	10	20	273.0	10.750	6.35	260.30	41.77	ASTM A106/API 5L	B	5.69	5.69	5.38	4.84	4.78	3.70	3.08	2.48
		30			7.80	257.40	51.00	ASTM A106/API 5L	B	7.02	7.02	6.64	5.97	5.90	4.56	3.79	3.05
		STD / 40			9.27	254.46	60.29	ASTM A106/API 5L	B	8.38	8.38	7.92	7.13	7.04	5.45	4.52	3.65
		XS / 60			12.70	247.60	81.54	ASTM A106/API 5L	B	11.59	11.59	10.95	9.85	9.73	7.53	6.26	5.04
		80			15.08	242.88	95.90	ASTM A106/API 5L	B	13.86	13.86	13.09	11.78	11.64	9.01	7.48	6.02
		100			18.26	236.52	114.64	ASTM A106/API 5L	B	16.92	16.92	15.99	14.38	14.21	10.99	9.13	7.35
		120			21.44	230.18	132.88	ASTM A106/API 5L	B	20.03	20.03	18.93	17.03	16.82	13.02	10.81	8.71
		XXS / 140			25.40	222.20	154.96	ASTM A106/API 5L	B	23.99	23.99	16.47	20.39	20.15	15.59	12.96	10.43
		160			28.58	215.84	172.09	ASTM A106/API 5L	B	27.22	27.22	25.73	23.14	22.87	17.70	14.70	11.84
300	12	20	323.8	12.750	6.35	311.10	49.72	ASTM A106/API 5L	B	4.79	4.79	4.53	4.07	4.02	3.11	2.59	2.08
		30			8.38	307.04	65.20	ASTM A106/API 5L	B	6.36	6.36	6.00	5.40	5.54	4.13	3.43	2.76
		STD			9.52	304.76	73.82	ASTM A106/API 5L	B	7.24	7.24	6.84	6.15	6.08	4.70	3.91	3.14
		40			10.31	303.18	79.72	ASTM A106/API 5L	B	7.85	7.85	7.42	6.67	6.60	5.10	4.24	3.41
		XS			12.70	298.40	97.44	ASTM A106/API 5L	B	9.72	9.72	9.19	8.26	8.16	6.31	5.25	4.23
		60			14.27	295.26	108.86	ASTM A106/API 5L	B	10.96	10.96	10.36	9.32	9.21	7.13	5.92	4.76
		80			17.48	289.10	131.89	ASTM A106/API 5L	B	13.52	13.52	12.85	11.49	11.36	8.79	7.30	5.88
		100			21.44	280.98	159.72	ASTM A106/API 5L	B	16.73	16.73	15.81	14.22	14.06	10.87	9.04	7.28
		XXS / 120			25.40	273.00	186.75	ASTM A106/API 5L	B	20.01	20.01	18.91	17.01	16.81	13.00	10.80	8.70
		140			28.58	266.64	207.85	ASTM A106/API 5L	B	22.68	22.68	21.43	19.27	19.05	14.74	12.24	9.86
		160			33.32	257.16	238.52	ASTM A106/API 5L	B	26.74	26.74	25.27	22.73	22.46	17.38	14.44	11.63
350	14	10	355.6	14	6.35	342.90	54.68	ASTM A106/API 5L	B	4.36	4.36	4.12	3.70	3.66	2.83	2.35	1.89
		20			7.92	339.76	67.94	ASTM A106/API 5L	B	5.45	5.45	5.16	4.64	4.58	3.54	2.94	2.37

Please note: We specialize in non - standard items.

If you require any size, length or grade not on this list, please do not hesitate to contact our sales team.

NOMINAL BORE		SCHEDULE	OUTSIDE DIAMETER		WALL THICKNESS	INTERNAL DIAMETER	MASS APPROX	MANUFACTURING STANDARD	MATERIAL GRADE	PRESSURE / TEMPERATURE RATINGS FOR SEAMLESS CARBON STEEL PIPE TO ASTM A106 GRADE B							
										MAXIMUM ALLOWABLE PRESSURE/TEMPERATURE RATINGS IN MPa FOR CHEMICAL PLANT AND PETROLEUM REFINERY PIPING SYSTEMS TO ANSI/ASME B31.3a -1981. PLEASE NOTE: THIS IS A GENERAL GUIDE ONLY. TO ESTABLISH EXACT WORKING PRESSURES PLEASE REFER TO ASME B31.3							
NB		STRENGTH / No.	MM		INCH		KG/M			TEMPERATURE °C							
DN	NPS		MM	INCH	(MM)	(MM)				-29 to 38	205	260	350	370	400	430	450
MM	INCH									ALLOWABLE STRESS MPa							
										137.80	137.80	130.22	117.13	115.75	89.57	74.41	59.94
350	14	STD / 30	355.6	14	9.52	336.56	81.28	ASTM A106/API 5L	B	6.58	6.58	6.22	5.59	5.53	4.27	3.55	2.86
		40			11.12	333.34	94.40	ASTM A106/API 5L	B	7.71	7.71	7.31	6.55	6.47	5.01	4.16	3.35
		XS			12.70	330.20	107.38	ASTM A106/API 5L	B	8.83	8.83	8.35	7.51	7.42	5.73	4.76	3.84
		60			15.09	325.48	126.58	ASTM A106/API 5L	B	10.54	10.54	9.96	8.96	8.86	6.85	5.69	4.58
		80			19.05	317.50	157.95	ASTM A106/API 5L	B	13.42	13.42	12.68	11.41	11.27	8.72	7.24	5.83
		100			23.82	308.00	194.82	ASTM A106/API 5L	B	16.95	16.95	16.01	14.40	14.24	11.01	9.15	7.37
		120			27.76	300.08	224.42	ASTM A106/API 5L	B	19.93	19.93	18.83	16.94	16.74	12.96	10.76	8.67
		140			31.75	292.10	253.14	ASTM A106/API 5L	B	22.96	22.96	21.70	19.51	19.29	14.93	12.40	9.99
		160			35.71	284.18	281.38	ASTM A106/API 5L	B	26.05	26.05	24.61	22.14	21.88	16.93	14.06	11.33
400	16	10	406.4	16	6.35	392.70	62.63	ASTM A106/API 5L	B	3.81	3.81	3.60	3.23	3.19	2.47	2.06	1.66
		20			7.92	390.56	77.86	ASTM A106/API 5L	B	4.76	4.76	4.50	4.05	4.00	3.10	2.57	2.07
		STD / 30			9.52	387.36	93.21	ASTM A106/API 5L	B	5.74	5.74	5.42	4.88	4.83	3.73	3.10	2.50
		XS / 40			12.70	381.00	123.29	ASTM A106/API 5L	B	7.70	7.70	7.28	6.54	6.47	5.00	4.16	3.34
		60			16.66	373.08	160.05	ASTM A106/API 5L	B	10.17	10.17	9.61	8.65	8.55	6.61	5.49	4.43
		80			21.44	363.58	203.32	ASTM A106/API 5L	B	13.20	13.20	12.47	11.22	11.09	8.58	7.13	5.74
		100			26.19	354.02	245.32	ASTM A106/API 5L	B	16.27	16.27	15.37	13.83	13.67	10.57	8.78	7.07
		120			30.96	344.52	286.44	ASTM A106/API 5L	B	19.40	19.40	18.34	16.48	16.30	12.61	10.48	8.44
		140			36.53	333.34	332.62	ASTM A106/API 5L	B	23.13	23.13	21.85	19.65	19.43	15.03	12.49	10.05
		160			40.49	325.48	364.85	ASTM A106/API 5L	B	25.82	25.82	24.40	21.95	21.69	16.78	13.94	11.23
450	18	10	457.2	18	6.35	444.50	70.59	ASTM A106/API 5L	B	3.38	3.38	3.19	2.87	2.83	2.19	1.82	1.47
		20			7.92	441.36	87.79	ASTM A106/API 5L	B	4.23	4.23	3.99	3.59	3.55	2.74	2.28	1.83
		STD			9.52	438.16	105.14	ASTM A106/API 5L	B	5.09	5.09	4.81	4.33	4.28	3.31	2.75	2.21
		30			11.12	434.94	122.36	ASTM A106/API 5L	B	5.96	5.96	5.64	5.07	5.01	3.87	3.22	2.59
		XS			12.7	431.80	139.19	ASTM A106/API 5L	B	6.83	6.83	6.45	5.80	5.73	4.43	3.68	2.96
		40			14.27	428.66	155.91	ASTM A106/API 5L	B	7.69	7.69	7.27	6.54	6.46	5.00	4.15	3.34
		60			19.05	419.10	205.62	ASTM A106/API 5L	B	10.34	10.34	9.78	8.79	8.69	6.72	5.58	4.49
		80			23.82	409.60	254.38	ASTM A106/API 5L	B	13.04	13.04	12.32	11.08	10.95	8.47	7.04	5.67
		100			29.36	398.48	309.44	ASTM A106/API 5L	B	16.21	16.21	15.32	13.78	13.62	10.54	8.75	7.05
		120			34.92	387.36	363.19	ASTM A106/API 5L	B	19.46	19.46	18.38	16.54	16.35	12.65	10.50	8.46
		140			39.67	377.86	408.01	ASTM A106/API 5L	B	22.28	22.28	21.05	18.94	18.71	14.48	12.03	9.69
		160			45.24	366.72	459.18	ASTM A106/API 5L	B	25.63	25.63	24.22	21.79	21.53	16.66	13.84	11.15
500	20	10	508.0	20	6.35	495.30	78.54	ASTM A106/API 5L	B	3.03	3.03	2.87	2.58	2.55	1.97	1.64	1.32
		STD / 20			9.52	488.96	117.07	ASTM A106/API 5L	B	4.58	4.58	4.32	3.89	3.85	2.97	2.47	1.99
		XS / 30			12.70	482.60	155.10	ASTM A106/API 5L	B	6.13	6.13	5.80	5.21	5.15	3.98	3.31	2.66
		40			15.06	477.88	183.15	ASTM A106/API 5L	B	7.31	7.31	6.91	6.21	6.14	4.75	3.94	3.18
		60			20.62	466.76	247.78	ASTM A106/API 5L	B	10.08	10.08	9.52	8.56	8.46	6.55	5.44	4.38
		80			26.19	455.62	310.82	ASTM A106/API 5L	B	12.89	12.89	12.18	10.96	10.83	8.38	6.96	5.60
		80			26.19	455.62	310.82	ASTM A106/API 5L	B	12.89	12.89	12.18	10.96	10.83	8.38	6.96	5.60
		100			32.54	442.92	381.04	ASTM A106/API 5L	B	16.17	16.17	15.28	13.74	13.58	10.51	8.73	7.03
		120			38.10	431.8	440.93	ASTM A106/API 5L	B	19.08	19.08	18.03	16.22	16.03	12.40	10.30	8.30
		140			44.45	419.10	507.54	ASTM A106/API 5L	B	22.47	22.47	21.24	19.10	18.87	14.61	12.14	9.77
		160			50.01	408.02	564.14	ASTM A106/API 5L	B	25.45	25.45	24.09	21.67	21.42	16.57	13.76	11.09
600	24	10	609.6	24	6.35	596.90	94.45	ASTM A106/API 5L	B	2.52	2.52	2.39	2.15	2.12	1.64	1.36	1.10
		STD / 20			9.52	590.56	140.88	ASTM A106/API 5L	B	3.81	3.81	3.60	3.23	3.19	2.47	2.06	1.66
		XS			12.70	584.20	186.90	ASTM A106/API 5L	B	5.09	5.09	4.81	4.33	4.28	3.31	2.75	2.21
		30			14.27	581.06	209.54	ASTM A106/API 5L	B	5.73	5.73	5.42	4.87	4.82	3.73	3.10	2.49

Please note: We specialize in non - standard items.

If you require any size, length or grade not on this list, please do not hesitate to contact our sales team.

NOMINAL BORE		SCHEDULE	OUTSIDE DIAMETER		WALL THICKNESS	INTERNAL DIAMETER	MASS APPROX	MANUFACTURING STANDARD	MATERIAL GRADE	PRESSURE / TEMPERATURE RATINGS FOR SEAMLESS CARBON STEEL PIPE TO ASTM A106 GRADE B							
										MAXIMUM ALLOWABLE PRESSURE/TEMPERATURE RATINGS IN MPa FOR CHEMICAL PLANT AND PETROLEUM REFINERY PIPING SYSTEMS TO ANSI/ASME B31.3a -1981. PLEASE NOTE: THIS IS A GENERAL GUIDE ONLY. TO ESTABLISH EXACT WORKING PRESSURES PLEASE REFER TO ASME B31.3							
NB		STRENGTH / No.	MM		INCH		KG/M			TEMPERATURE °C							
DN	NPS		MM	INCH	(MM)	(MM)				-29 to 38	205	260	350	370	400	430	450
										ALLOWABLE STRESS MPa							
MM	INCH									137.80	137.80	130.22	117.13	115.75	89.57	74.41	59.94
600	24	40	609.6	24	17.48	574.90	254.93	ASTM A106/API 5L	B	7.05	7.05	6.67	5.99	5.92	4.58	3.81	3.06
		60			24.59	560.42	354.74	ASTM A106/API 5L	B	10.01	10.01	9.46	8.51	8.42	6.51	5.40	4.36
		80			30.94	547.72	441.90	ASTM A106/API 5L	B	12.69	12.69	12.00	10.78	10.65	8.25	6.85	5.51
		100			38.89	531.82	546.92	ASTM A106/API 5L	B	16.10	16.10	15.22	13.69	13.52	10.46	8.69	7.00
		120			46.02	517.56	639.18	ASTM A106/API 5L	B	19.22	19.22	18.16	16.33	16.15	12.49	10.38	8.36
		140			52.37	504.86	718.94	ASTM A106/API 5L	B	22.04	22.04	20.83	18.74	18.52	14.33	11.90	9.59
		160			59.54	490.58	806.61	ASTM A106/API 5L	B	25.27	25.27	23.88	21.48	21.23	16.43	13.64	10.99

**PIPE ENDS:** unless otherwise specified pipe ends are normally supplied as below:-

- a) Up to and including 48.3mm O.D. Size are supplied with plain ends cut square
- b) Above 48.3mm O.D. sizes (except for Double Extra-Strong pipe) are supplied with plain ends bevelled.
- c) All Double Extra-Strong pipe is supplied with plain ends cut square.

**PIPE FINISH:**

- all pipes up to and including 48.3 O.D are cold drawn
- all pipes from 60.3 O.D to 604.6 O.D are hot finished.