



GT-90

# Coiled Tubing Technical Data

METRIC UNITS

## TOLERANCES

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**Outside Diameter (mm):** Nominal O.D.  $\pm 0.25$

<b>Wall Thickness (mm):</b>	Up to 2.21	(-0.10, +0.25)
	2.41 to 2.95	(-0.13, +0.25)
	3.18 to 3.68	(-0.18, +0.31)
	3.96 to 4.45	(-0.20, +0.31)
	4.83 to 7.01	(-0.25, +0.31)
	7.62	(-0.31, +0.38)
	8.56	(-0.38, +0.38)

## MECHANICAL PROPERTIES

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**Specified Min Yield Strength (SMYS)** 621 N/mm<sup>2</sup>

**Specified Min Tensile Strength (SMTS)** 669 N/mm<sup>2</sup>

**Max Hardness** 22 HRC

**Min. Elongation, % (2" Gage Length)** Per API: Min% =  $625000 * \text{Area}^{0.2} / \text{UTS}^{0.9}$



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Specified Dimensions						Axial Load Capacity		Pressure Capacity		Torsional Strength		Capacity	
Outside Diameter D (mm)	Outside Diameter D (in)	Wall Thickness t (mm)	Wall Thickness t (in)	Inside Diameter d (mm)	Nominal Weight w (kg/m)	Yield Load Ly (kN) tnom	Tensile Load Lt (kN) tnom	Yield Pressure Yp (MPa)	Hydrotest Pressure Hp (MPa)	Yield (N.m) tmin	Ultimate (N.m) tmin	External Displacement L/m	Internal Capacity L/m
25.40	1.000	2.21	0.087	20.98	1.26	99.91	107.69	103.01	92.71	600	640	0.507	0.346
25.40	1.000	2.41	0.095	20.57	1.37	108.14	116.54	111.70	100.53	630	680	0.507	0.332
25.40	1.000	2.59	0.102	20.22	1.46	115.21	124.15	120.38	108.34	670	720	0.507	0.321
25.40	1.000	2.77	0.109	19.86	1.55	122.15	131.67	129.07	116.16	700	750	0.507	0.310
25.40	1.000	2.95	0.116	19.51	1.63	128.95	139.01	137.76	123.98	730	790	0.507	0.299
25.40	1.000	3.18	0.125	19.05	1.74	137.58	148.26	146.44	131.80	760	820	0.507	0.285
25.40	1.000	3.40	0.134	18.59	1.85	145.95	157.29	157.61	141.85	800	860	0.507	0.272
31.75	1.250	2.21	0.087	27.33	1.61	127.26	137.14	82.39	74.15	980	1,050	0.792	0.587
31.75	1.250	2.41	0.095	26.92	1.75	137.98	148.75	89.36	80.42	1,040	1,120	0.792	0.569
31.75	1.250	2.59	0.102	26.57	1.86	147.28	158.71	96.32	86.69	1,100	1,190	0.792	0.554
31.75	1.250	2.77	0.109	26.21	1.98	156.40	168.59	103.28	92.96	1,160	1,250	0.792	0.540
31.75	1.250	2.95	0.116	25.86	2.09	165.43	178.33	110.18	99.16	1,220	1,320	0.792	0.525
31.75	1.250	3.18	0.125	25.40	2.24	176.86	190.61	117.14	105.43	1,280	1,380	0.792	0.507
31.75	1.250	3.40	0.134	24.94	2.38	188.07	202.71	126.11	113.49	1,340	1,450	0.792	0.489
31.75	1.250	3.68	0.145	24.38	2.55	201.50	217.21	137.00	123.30	1,420	1,530	0.792	0.467
31.75	1.250	3.96	0.156	23.83	2.72	214.63	231.35	146.93	132.23	1,490	1,600	0.792	0.446
31.75	1.250	4.45	0.175	22.86	2.99	236.60	255.02	165.82	149.24	1,600	1,730	0.792	0.410
31.75	1.250	4.83	0.190	22.10	3.20	253.28	272.99	178.71	160.84	1,670	1,800	0.792	0.384
38.10	1.500	2.21	0.087	33.68	1.96	154.62	166.63	68.67	61.80	1,460	1,570	1.140	0.891
38.10	1.500	2.41	0.095	33.27	2.12	167.88	180.91	74.46	67.02	1,560	1,680	1.140	0.870
38.10	1.500	2.59	0.102	32.92	2.27	179.35	193.28	80.26	72.23	1,650	1,780	1.140	0.851
38.10	1.500	2.77	0.109	32.56	2.41	190.70	205.51	86.05	77.44	1,750	1,890	1.140	0.833
38.10	1.500	2.95	0.116	32.21	2.55	201.90	217.61	91.84	82.65	1,840	1,980	1.140	0.815
38.10	1.500	3.18	0.125	31.75	2.73	216.18	233.00	97.63	87.87	1,930	2,080	1.140	0.792
38.10	1.500	3.40	0.134	31.29	2.91	230.20	248.12	105.08	94.57	2,040	2,200	1.140	0.769
38.10	1.500	3.68	0.145	30.73	3.13	247.10	266.32	114.18	102.76	2,170	2,330	1.140	0.742
38.10	1.500	3.96	0.156	30.18	3.34	263.69	284.20	122.45	110.21	2,280	2,450	1.140	0.715
38.10	1.500	4.45	0.175	29.21	3.69	291.63	314.31	138.17	124.35	2,470	2,660	1.140	0.670
38.10	1.500	4.83	0.190	28.45	3.96	313.02	337.40	148.93	134.03	2,590	2,790	1.140	0.636
38.10	1.500	5.18	0.204	27.74	4.21	332.50	358.39	160.51	144.46	2,720	2,930	1.140	0.604
38.10	1.500	5.69	0.224	26.72	4.55	359.51	387.44	177.06	159.35	2,880	3,100	1.140	0.561



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Outside Diameter D (mm)	Outside Diameter D (in)	Wall Thickness t (mm)	Wall Thickness t (in)	Inside Diameter d (mm)	Nominal Weight w (kg/m)	Yield Load Ly (kN) tnom	Tensile Load Lt (kN) tnom	Yield Pressure Yp (MPa)	Hydrotest Pressure Hp (MPa)	Yield (N.m) tmin	Ultimate (N.m) tmin	External Displacement L/m	Internal Capacity L/m
44.45	1.750	2.77	0.109	38.91	2.85	224.95	242.47	73.77	66.40	2,450	2,640	1.552	1.189
44.45	1.750	2.95	0.116	38.56	3.02	238.38	256.93	78.74	70.86	2,590	2,790	1.552	1.168
44.45	1.750	3.18	0.125	38.10	3.23	255.46	275.34	83.70	75.33	2,720	2,930	1.552	1.140
44.45	1.750	3.40	0.134	37.64	3.45	272.36	293.54	90.05	81.04	2,880	3,100	1.552	1.113
44.45	1.750	3.68	0.145	37.08	3.70	292.69	315.47	97.84	88.05	3,070	3,310	1.552	1.080
44.45	1.750	3.96	0.156	36.53	3.96	312.75	337.09	104.94	94.44	3,230	3,490	1.552	1.048
44.45	1.750	4.45	0.175	35.56	4.39	346.65	373.61	118.45	106.61	3,530	3,800	1.552	0.993
44.45	1.750	4.83	0.190	34.80	4.72	372.81	401.76	127.62	114.86	3,720	4,010	1.552	0.951
44.45	1.750	5.18	0.204	34.09	5.02	396.65	427.52	137.55	123.80	3,910	4,220	1.552	0.913
44.45	1.750	5.69	0.224	33.07	5.44	429.92	463.37	151.75	136.58	4,170	4,490	1.552	0.859
44.45	1.750	5.99	0.236	32.46	5.68	449.40	484.32	160.30	144.27	4,310	4,640	1.552	0.828
50.80	2.000	2.77	0.109	45.26	3.28	259.24	279.39	64.53	58.08	3,280	3,530	2.027	1.609
50.80	2.000	2.95	0.116	44.91	3.48	274.86	296.25	68.88	61.99	3,460	3,730	2.027	1.584
50.80	2.000	3.18	0.125	44.45	3.73	294.78	317.69	73.22	65.90	3,640	3,920	2.027	1.552
50.80	2.000	3.40	0.134	43.99	3.98	314.49	338.95	78.81	70.93	3,870	4,170	2.027	1.520
50.80	2.000	3.68	0.145	43.43	4.28	338.29	364.62	85.63	77.07	4,130	4,450	2.027	1.482
50.80	2.000	3.96	0.156	42.88	4.58	361.82	389.93	91.84	82.65	4,360	4,700	2.027	1.444
50.80	2.000	4.45	0.175	41.91	5.08	401.67	432.90	103.63	93.27	4,780	5,150	2.027	1.380
50.80	2.000	4.83	0.190	41.15	5.47	432.55	466.17	111.70	100.53	5,050	5,450	2.027	1.330
50.80	2.000	5.18	0.204	40.44	5.83	460.79	496.64	120.38	108.34	5,330	5,740	2.027	1.284
50.80	2.000	5.69	0.224	39.42	6.33	500.34	539.26	132.79	119.51	5,700	6,150	2.027	1.221
50.80	2.000	5.99	0.236	38.81	6.62	523.60	564.30	140.24	126.22	5,910	6,370	2.027	1.183
50.80	2.000	6.35	0.250	38.10	6.96	550.25	593.04	148.93	134.03	6,150	6,620	2.027	1.140
60.33	2.375	3.18	0.125	53.98	4.47	353.72	381.26	61.64	55.48	5,280	5,690	2.858	2.288
60.33	2.375	3.40	0.134	53.52	4.78	377.70	407.06	66.40	59.76	5,620	6,060	2.858	2.250
60.33	2.375	3.68	0.145	52.96	5.14	406.70	438.33	72.12	64.91	6,020	6,490	2.858	2.203
60.33	2.375	3.96	0.156	52.40	5.51	435.39	469.24	77.36	69.62	6,370	6,870	2.858	2.157
60.33	2.375	4.45	0.175	51.44	6.13	484.23	521.87	87.29	78.56	7,020	7,570	2.858	2.078
60.33	2.375	4.83	0.190	50.67	6.61	522.13	562.74	94.04	84.64	7,440	8,020	2.858	2.017



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60.33	2.375	5.18	0.204	49.96	7.05	557.01	600.33	101.35	91.22	7,880	8,490	2.858	1.960
60.33	2.375	5.69	0.224	48.95	7.67	605.98	653.13	111.83	100.65	8,470	9,130	2.858	1.882
60.33	2.375	5.99	0.236	48.34	8.03	634.89	684.27	118.11	106.30	8,810	9,490	2.858	1.835
60.33	2.375	6.35	0.250	47.63	8.45	668.17	720.12	125.42	112.87	9,180	9,900	2.858	1.781
60.33	2.375	7.01	0.276	46.30	9.22	728.62	785.29	139.00	125.10	9,840	10,610	2.858	1.684
66.68	2.625	3.40	0.134	59.87	5.31	419.82	452.47	60.05	54.05	6,970	7,510	3.492	2.815
66.68	2.625	3.68	0.145	59.31	5.72	452.25	487.44	65.22	58.70	7,480	8,060	3.492	2.763
66.68	2.625	3.96	0.156	58.75	6.13	484.41	522.09	69.98	62.98	7,930	8,550	3.492	2.711
66.68	2.625	4.45	0.175	57.79	6.82	539.26	581.20	78.95	71.05	8,750	9,430	3.492	2.623
66.68	2.625	4.83	0.190	57.02	7.36	581.87	627.15	85.08	76.57	9,290	10,020	3.492	2.554
66.68	2.625	5.18	0.204	56.31	7.86	621.15	669.46	91.70	82.53	9,850	10,620	3.492	2.491
66.68	2.625	5.69	0.224	55.30	8.56	676.44	729.02	101.15	91.03	10,620	11,450	3.492	2.401
66.68	2.625	5.99	0.236	54.69	8.97	709.09	764.25	106.87	96.18	11,060	11,920	3.492	2.349
66.68	2.625	6.35	0.250	53.98	9.45	746.77	804.86	113.49	102.14	11,550	12,450	3.492	2.288
66.68	2.625	7.01	0.276	52.65	10.32	815.40	878.84	125.76	113.18	12,420	13,390	3.492	2.177
66.68	2.625	7.62	0.300	51.44	11.10	877.23	945.47	136.17	122.55	13,110	14,130	3.492	2.078
73.03	2.875	3.68	0.145	65.66	6.30	497.85	536.59	59.57	53.61	9,100	9,810	4.188	3.386
73.03	2.875	3.96	0.156	65.10	6.75	533.48	574.98	63.91	57.52	9,660	10,410	4.188	3.329
73.03	2.875	4.45	0.175	64.14	7.52	594.28	640.50	72.12	64.91	10,680	11,510	4.188	3.231
73.03	2.875	4.83	0.190	63.37	8.12	641.61	691.52	77.70	69.93	11,350	12,230	4.188	3.154
73.03	2.875	5.18	0.204	62.66	8.67	685.29	738.63	83.77	75.39	12,050	12,990	4.188	3.084
73.03	2.875	5.69	0.224	61.65	9.45	746.86	804.95	92.39	83.15	13,020	14,030	4.188	2.985
73.03	2.875	5.99	0.236	61.04	9.91	783.29	844.23	97.56	87.80	13,570	14,630	4.188	2.926
73.03	2.875	6.35	0.250	60.33	10.44	825.37	889.56	103.63	93.27	14,200	15,310	4.188	2.858
73.03	2.875	7.01	0.276	59.00	11.41	902.19	972.34	114.80	103.32	15,310	16,500	4.188	2.734
73.03	2.875	7.62	0.300	57.79	12.29	971.58	1,047.16	124.31	111.88	16,190	17,450	4.188	2.623