BS EN 10255 : 2004

Non-alloy Steel Tubes Suitable for Welding and Threading

STEEL GRADE		(%) CHEMICAL COMPOSITION (Max)				MECHANICAL PROPERTIES (Min)			COLOR CODE
STEEL NAME	STEEL NUMBER	C Max	Mn Max	P Max	S Max	Yield Strenght MPa (min)	Tensile Strenght MPa	Elongation % (min)	Material of Grade
S 195T	1.0026	0.20	1.40	0.035	0.030	195	320 to 520	20	-

L Series

NOMINAL SIZE		THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm	Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
3/8"	10	2.00	1.80	2.20	17.2	16.70	17.40	0.750	0.756
1/2"	15	2.30	2.07	2.53	21.3	21.00	21.70	1.08	1.09
1-1/4"	32	2.90	2.61	3.19	42.4	41.90	42.70	2.82	2.85
1-1/2"	40	2.90	2.61	3.19	48.3	47.80	48.60	3.25	3.29
2"	50	3.20	2.88	3.52	60.3	59.60	60.70	4.51	4.58
3"	80	3.20	2.88	3.52	88.9	87.90	88.70	6.76	6.93
3-1/2"	90	3.60	3.24	3.96	101.6	100.30	101.20	8.70	8.88
4"	100	3.60	3.24	3.96	114.3	113.00	113.90	9.83	10.10
5"	125	4.50	4.05	4.95	139.7	138.50	140.80	15.00	15.50
6"	150	4.50	4.05	4.95	165.1	163.90	166.50	17.80	18.40

L1 Series

NOMINAL SIZE		THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm	Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
3/8"	10	2.00	1.84	2.00	17.2	16.70	17.40	0.742	0.748
1/2"	15	2.30	2.12	2.30	21.3	21.00	21.70	1.08	1.09
3/4"	20	2.30	2.12	2.30	26.9	26.40	27.10	1.39	1.40
1"	25	2.90	2.67	2.90	33.7	33.20	34.00	2.20	2.22
1-1/4"	32	2.90	2.67	2.90	42.4	41.90	42.70	2.82	2.85
1-1/2"	40	2.90	2.67	2.90	48.3	47.80	48.60	3.24	3.28
2"	50	3.20	2.94	3.20	60.3	59.60	60.70	4.49	4.56
2-1/2"	65	3.20	2.94	3.20	76.1	75.20	76.30	5.73	5.85
3"	80	3.60	3.31	3.60	88.9	87.90	89.40	7.55	7.72
4"	100	4.00	3.68	4.00	114.3	113.00	114.90	10.80	11.10

L2 Series

NOMINAL SIZE		THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm	Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
3/8"	10	1.80	1.66	1.80	17.2	16.70	17.10	0.670	0.676
1/2"	15	2.00	1.84	2.00	21.3	21.00	21.40	0.947	0.956
3/4"	20	2.30	2.11	2.30	26.9	26.40	26.90	1.380	1.390
1"	25	2.60	2.39	2.60	33.7	33.20	33.80	1.980	2.000
1-1/4"	32	2.60	2.39	2.60	42.4	41.90	42.50	2.540	2.570
1-1/2"	40	2.90	2.66	2.90	48.3	47.80	48.40	3.230	3.270
2"	50	2.90	2.66	2.90	60.3	59.60	60.20	4.080	4.150
2-1/2"	65	3.20	2.94	3.20	76.1	75.20	76.00	5.710	5.830
3"	80	3.20	2.94	3.20	88.9	87.90	88.70	6.720	6.890
4"	100	3.60	3.31	3.60	114.3	113.00	113.90	9.750	10.000

Dimension Tolerances

Outside Diameter	≤ 48.3 mm. : ± 0.4 mm. ≥ 60.3 mm. : ± 1%
Thickness	Type L : ± 10% Type L1 and L2 : -8%
Weight	Type L : ± 7.5% Type L1 and L2 : + 10%, - 8%
Hydrostatic Test	50 bar or 700 psi

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S 195T	1.0026	0.20	1.40	0.035	0.030	195	320 to 520	20	-

M Series

NOMINAL SIZE		THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm	Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
3/8"	10	2.30	2.07	2.53	17.2	16.70	17.50	0.840	0.845
1/2"	15	2.60	2.34	2.86	21.3	21.00	21.80	1.21	1.22
3/4"	20	2.60	2.34	2.86	26.9	26.50	27.30	1.560	1.570
1"	25	3.20	2.88	3.52	33.7	33.30	34.20	2.410	2.430
1-1/4"	32	3.20	2.88	3.52	42.4	42.00	42.90	3.100	3.130
1-1/2"	40	3.20	2.88	3.52	48.3	47.90	48.80	3.560	3.600
2"	50	3.60	3.24	3.96	60.3	59.70	60.80	5.030	5.100
2-1/2"	65	3.60	3.24	3.96	76.1	75.30	76.60	6.420	6.540
3"	80	4.00	3.60	4.40	88.9	88.00	89.50	8.360	8.50
4"	100	4.50	4.05	4.95	114.3	113.10	115.00	12.200	12.500
5"	125	5.00	4.50	5.50	139.7	138.50	140.80	16.600	17.100
6"	150	5.00	4.50	5.50	165.1	163.90	166.50	19.800	20.400

H Series

NOMINAL SIZE		THICKNESS MM			OUTSIDE DIAMETER MM			PLAIN END	THREADED AND SOCKETED
in	mm	Std.	Min	Max	Std.	Min	Max	KG/M	KG/M
3/8"	10	2.90	2.61	3.19	17.2	16.70	17.50	1.020	1.30
1/2"	15	3.20	2.88	3.52	21.3	21.00	21.80	1.44	1.45
3/4"	20	3.20	2.88	3.52	26.9	26.50	27.30	1.870	1.880
1"	25	4.00	3.60	4.40	33.7	33.30	34.20	2.930	2.950
1-1/4"	32	4.00	3.60	4.40	42.4	42.00	42.90	3.790	3.820
1-1/2"	40	4.00	3.60	4.40	48.3	47.90	48.80	4.370	4.410
2"	50	4.50	4.05	4.95	60.3	59.70	60.80	6.190	6.260
2-1/2"	65	4.50	4.05	4.95	76.1	75.30	76.60	7.930	8.050
3"	80	5.00	4.50	5.50	88.9	88.00	89.50	10.300	10.500
4"	100	5.40	4.86	5.94	114.3	113.10	115.00	14.500	14.800
5"	125	5.40	4.86	5.94	139.7	138.50	140.80	17.900	18.400
6"	150	5.40	4.86	5.94	165.1	163.90	166.50	21.300	21.900

Dimension Tolerances

Thickness	M and H series : ± 10%
Weight	M and H series : ± 7.5%
Hydrostatic Test	50 bar or 700 psi