



BASHIR PIPE INDUSTRIES (Pvt) Ltd.



Manufacturers of
M.S. & G.I. Pipes
{ $\frac{1}{2}$ " - 18" Diameter}
Square & Rectangular Tubes
{ $\frac{1}{2}$ " x $\frac{1}{2}$ " - 8" x 8"}
& Lighting Poles



5L-0807



**AS PER INTERNATIONAL STANDARDS,
i.e, BS EN, JIS, API & ASTM.**

UNDER HIGHLY QUALIFIED AND SKILLED PROFESSIONALS

- **MS & GI PIPES ½" to 18" DIA**
- **SPECIAL SIZE IN SQUARE**
- **RECTANGULAR TUBES**
- **TUBULAR LIGHTING POLES**
- **PE PIPE 20mm to 450mm DIA**

**MANUFACTURED ON LATEST & FULLY AUTOMATIC
IMPORTED PLANTS & MACHINES**

**THE SOLUTION FOR WATER, OIL & GAS
TRANSMISSION MAIN LINES AND DOMESTIC USAGE**

INTRODUCTION

Bashir Pipe Industries (Pvt) Ltd. is one of the most prominent and well reputed industries of Pakistan for steel pipe manufacturing. Our production capacity and facilities are of much wider range from ½" to 18" diameter, Mild Steel and Galvanized. We have been producing pipes to international standards such as **BS EN, ASTM, JIS & API** with our long experience and up-to-date testing lab facilities.

Our manufacturing process is based on the latest technology with installed Electric Resistance Welding (E.R.W) process on high frequency plants imported from Japan. The pipe thus manufactured replaces the seamless pipe due to its high sustainable pressure and comparatively lower costs.

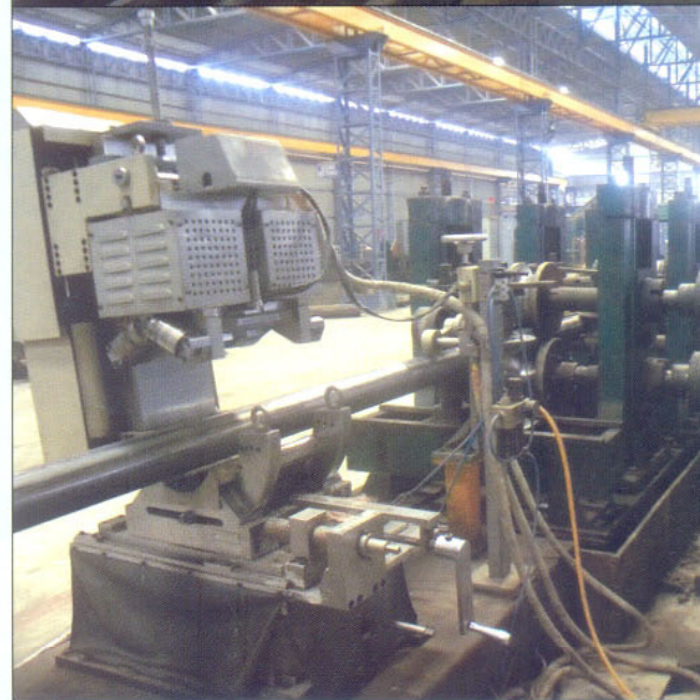
It is the renowned quality of **Bashir Pipe Industries (Pvt) Ltd.** that the pipes used in various Govt., Semi Govt. Organizations, State Enterprises, Leading Multinational Projects, Sugar and Chemical Industries, Water Supply Schemes, Oil and Gas Transmission Lines, Scaffolding etc. bear the trademark of Bashir Pipe. Our enlistment and pre-qualification with Government, Semi Govt. and Commercial Organizations are the solid proof of our quality production.

According to the consumer's requirement, the pipe is passed through various processes like Coating, Galvanizing, Threading, Coupling, etc, to extend the dependability and ensure excellent services. Galvanizing is done by the latest technique i.e., Hot dip, approved by the European standard formerly British Standard.

Top Quality

Top Quality is our conviction. We are equipped with ample in house testing facilities. The whole process of pipe manufacturing is supervised by the skilled experts and every pipe goes through rigorous inspection before its delivery.

The Trade Mark of BASHIR PIPE on every pipe bears the guarantee of its quality.



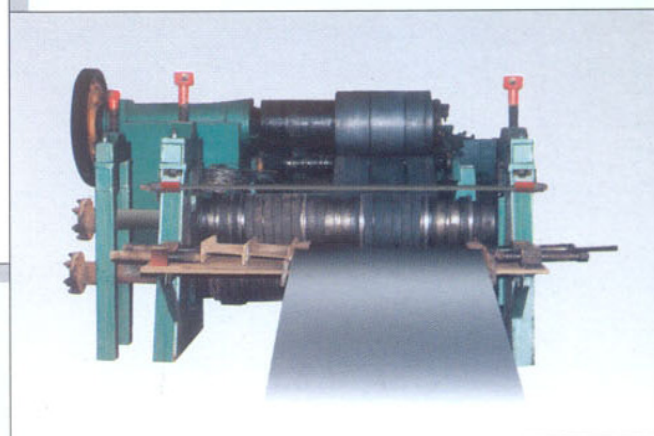
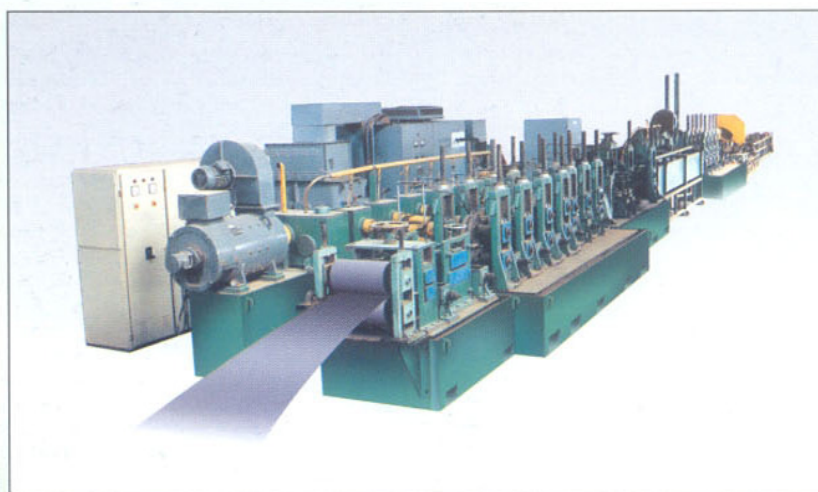
BS EN 10255 - 2004

Formerly BS 1387: 1985

Dimension of Steel Tubes

Grade "L 2" Formerly Light	Nominal Dia (DN)	Nominal Dia (DN)	Outside Diameter		Wall Thickness	Mass of Black Pipe	
			max.	Min.		Plain End	Screwed and Socketed
	(mm)	(inch)	(mm)	(mm)		(kg/m)	(kg/m)
	15	1/2"	21.40	21.00	2.0	0.95	0.956
	20	3/4"	26.90	26.40	2.3	1.38	1.39
	25	1"	33.80	33.20	2.6	1.98	2.00
	32	1 1/4"	42.50	41.90	2.6	2.54	2.57
	40	1 1/2"	48.40	47.80	2.9	3.23	3.27
	50	2"	60.20	59.60	2.9	4.08	4.15
	65	2 1/2"	76.00	75.20	3.2	5.71	5.83
	80	3"	88.70	87.90	3.2	6.72	6.89
	100	4"	113.90	113.00	3.6	9.75	10.00

Grade "M" Formerly Medium	Nominal Dia (DN)	Nominal Dia (DN)	Outside Diameter		Wall Thickness	Mass of Black Pipe	
			max.	Min.		Plain End	Screwed and Socketed
	(mm)	(inch)	(mm)	(mm)		(kg/m)	(kg/m)
	15	1/2"	21.80	21.00	2.6	1.21	1.22
	20	3/4"	27.30	26.50	2.6	1.56	1.57
	25	1"	34.20	33.50	3.2	2.41	2.43
	32	1 1/4"	42.90	42.00	3.2	3.10	3.13
	40	1 1/2"	48.80	47.90	3.2	3.56	3.61
	50	2"	60.80	59.70	3.6	5.03	5.10
	65	2 1/2"	76.60	75.30	3.6	6.42	6.55
	80	3"	89.50	88.00	4.0	8.36	8.54
	100	4"	115.00	113.10	4.5	12.16	12.50
	125	5"	140.80	138.50	5.0	16.60	17.10
	150	6"	166.50	163.90	5.0	19.75	20.30



BS EN 10255 - 2004

Formerly BS 1387: 1985

Dimension of Steel Tubes

Grade "H" Formerly Heavy	Nominal Dia (DN)	Nominal Dia (DN)	Outside Diameter		Wall Thickness	Mass of Black Pipe	
	(mm)	(inch)	max.	Min.		Plain End	Screwed and Socketed
	(mm)	(inch)	(mm)	(mm)		(kg/m)	(kg/m)
	15	1/2"	21.80	21.00	3.2	1.44	1.45
	20	3/4"	27.30	26.50	3.2	1.87	1.88
	25	1"	34.20	33.30	4.0	2.93	2.96
	32	1 1/4"	42.90	42.00	4.0	3.79	3.83
	40	1 1/2"	48.80	47.90	4.0	4.37	4.42
	50	2"	60.80	59.70	4.5	6.19	6.26
	65	2 1/2"	76.60	75.30	4.5	7.93	8.05
	80	3"	89.50	88.00	5.0	10.30	10.50
	100	4"	115.00	113.10	5.4	14.50	14.80
	125	5"	140.80	138.50	5.4	17.90	18.40
	150	6"	166.50	163.90	5.4	21.30	21.90

Permissible Variations

Thickness:

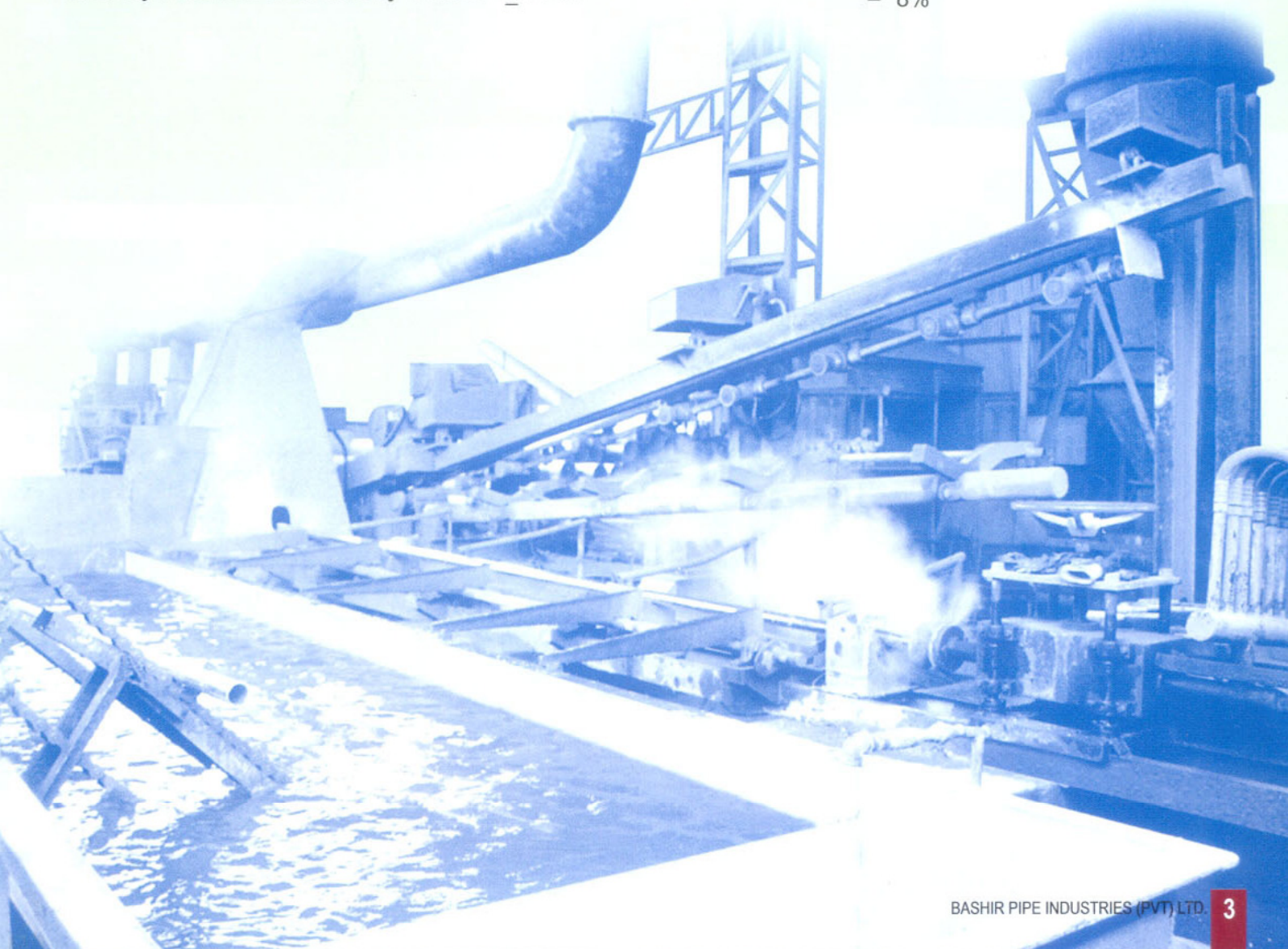
Grade L2 Formerly Light Tubes - 8%

Grade "M" and Grade "H"

Formerly Medium and Heavy Tubes $\pm 10\%$

Mass:

The mean consignment mass for quantities of 10 TONS or more for Grade "M" and Grade "H" shall not deviate by more than $\pm 7.5\%$ from the mass of the consignment calculated from the masses given in table. No single tube shall deviate by more than $+10\%$ from the mass given in tables.
- 8%



API 5L PLAIN END PIPE STANDARD SIZES & WEIGHTS

Outside Diameter		Plain-End Weight		Wall Thickness		Inside Diameter	Minimum Test Pressure										
in	mm	lb/ft	Kg/m	in	mm	mm	Grade A25	Grade A	Grade B	Grade X42	Grade X46	Grade X52	Grade X56	Grade X60	Grade X65	Grade X70	Grade X80
3/4"	26.7	1.13	1.70	0.113	2.87	20.9	-	700	700	-	-	-	-	-	-	-	-
1"	33.4	1.68	2.52	0.133	3.38	26.6	-	700	700	-	-	-	-	-	-	-	-
*2 3/8	60.3	2.03	3.01	0.083	2.1	56.1	595	1260	1470	1760	1930	2180	2335	2509	2712	2930	3000
*2 3/8	60.3	2.64	3.97	0.109	2.8	54.6	798	1700	1980	2310	2530	2860	3000	3000	3000	3000	3000
*2 3/8	60.3	3.00	4.51	0.125	3.2	53.9	1001	1940	2260	2650	2910	3000	3000	3000	3000	3000	3000
*2 3/8	60.3	3.36	5.33	0.141	3.6	53.1	1001	2180	2545	2990	3000	3000	3000	3000	3000	3000	3000
*2 3/8	60.3	3.65	5.42	0.154	3.9	52.5	1001	2330	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 3/8	60.3	4.05	6.07	0.172	4.4	51.5	1102	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 3/8	60.3	4.39	6.57	0.188	4.8	50.7	1204	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 3/8	60.3	5.02	7.43	0.218	5.5	49.3	1305	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	2.47	3.67	0.083	2.1	68.8	595	1040	1210	1460	1590	1800	1929	2074	2248	2422	2756
*2 7/8	73.0	2.80	3.22	0.109	2.8	67.4	798	1400	1635	1910	2090	2370	2582	2770	2988	3000	3000
*2 7/8	73.0	3.67	5.51	0.125	3.2	66.6	1001	1600	1870	2190	2400	2710	2944	3000	3000	3000	3000
*2 7/8	73.0	4.12	6.16	0.141	3.6	65.8	1001	1800	2100	2470	2710	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	4.53	6.81	0.156	4.0	65.0	1001	1950	2280	2730	3000	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	4.97	7.44	0.172	4.4	64.2	1001	2150	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	5.40	8.07	0.188	4.8	63.4	1001	2350	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	5.79	8.69	0.203	5.2	62.6	1001	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	6.13	9.16	0.216	5.5	62.0	1102	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*2 7/8	73.0	7.01	10.51	0.250	6.4	60.2	1204	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*3 1/2	88.9	3.03	4.50	0.083	2.1	84.7	595	850	1000	1200	1310	1480	1581	1697	1842	1987	2277
*3 1/2	88.9	3.95	5.95	0.109	2.8	83.3	798	1150	1340	1570	1720	1940	2117	2262	2451	2654	3000
*3 1/2	88.9	4.51	6.76	0.125	3.2	82.5	1001	1290	1500	1800	1970	2230	2422	2596	2814	3000	3000
*3 1/2	88.9	5.06	7.57	0.141	3.6	81.7	1001	1480	1730	2030	2220	2510	2727	2915	3000	3000	3000
*3 1/2	88.9	5.57	8.37	0.156	4.0	80.9	1001	1600	1870	2250	2460	2780	3000	3000	3000	3000	3000
*3 1/2	88.9	6.11	9.17	0.172	4.4	80.1	1001	1770	2060	2480	2710	3000	3000	3000	3000	3000	3000
*3 1/2	88.9	6.65	9.95	0.188	4.8	79.3	1001	1930	2260	2710	2970	3000	3000	3000	3000	3000	3000
*3 1/2	88.9	7.58	11.31	0.216	5.5	77.9	1001	2220	2500	3000	3000	3000	3000	3000	3000	3000	3000
*3 1/2	88.9	8.68	13.02	0.250	6.4	76.1	-	2500	2500	3000	3000	3000	3000	3000	3000	3000	3000
*4	101.6	3.47	5.15	0.083	2.1	97.4	-	750	870	1050	1150	1290	1392	1494	1610	1740	1987
*4	101.6	4.53	6.82	0.109	2.8	96.0	595	980	1140	1370	1500	1700	1857	1987	2147	2321	2640
*4	101.6	5.17	7.76	0.125	3.2	95.2	-	1120	1310	1580	1720	1950	2118	2263	2451	2654	3000
*4	101.6	6.40	9.63	0.156	4.0	93.6	-	1400	1640	1970	2150	2430	2640	2843	3000	3000	3000
*4	101.6	7.03	10.55	0.172	4.4	92.8	1001	1550	1810	2170	2370	2680	2915	3000	3000	3000	3000
*4	101.6	7.65	11.46	0.188	4.8	92.0	1204	1690	1970	2370	2590	3000	3000	3000	3000	3000	3000
*4	101.6	9.11	13.48	0.226	5.7	90.2	1204	2030	2370	2850	3000	3000	3000	3000	3000	3000	3000
*4	101.6	10.01	15.02	0.250	6.4	88.8	-	2250	2620	3000	3000	3000	3000	3000	3000	3000	3000
*4	101.6	11.16	16.55	0.281	7.1	87.4	-	2530	2800	3000	3000	3000	3000	3000	3000	3000	3000
*4 1/2	114.3	3.92	5.81	0.083	2.1	110.1	-	660	770	930	1020	1150	1233	1320	1436	1537	1769
*4 1/2	114.3	5.84	8.77	0.125	3.2	107.9	798	1000	1170	1400	1530	1730	1885	2016	2190	2350	2683
*4 1/2	114.3	6.56	9.83	0.141	3.6	107.1	-	1130	1320	1580	1730	1960	2118	2263	2451	2654	3000
*4 1/2	114.3	7.24	10.88	0.156	4.0	106.3	1001	1250	1460	1750	1910	2160	2350	2524	2727	2944	3000
*4 1/2	114.3	7.95	11.92	0.172	4.4	105.5	-	1380	1610	1930	2110	2390	2582	2770	3000	3000	3000
*4 1/2	114.3	8.66	12.96	0.188	4.8	104.7	1204	1500	1750	2110	2310	2610	2828	3000	3000	3000	3000
*4 1/2	114.3	9.32	13.99	0.203	5.2	103.9	-	1620	1890	2270	2490	2810	3000	3000	3000	3000	3000
*4 1/2	114.3	10.01	15.01	0.219	5.6	103.1	1204	1750	2040	2450	2690	3000	3000	3000	3000	3000	3000
*4 1/2	114.3	10.79	16.02	0.237	6.0	102.3	1204	1900	2210	2650	2910	3000	3000	3000	3000	3000	3000
*4 1/2	114.3	11.35	17.03	0.250	6.4	101.5	-	2000	2330	2800	3000	3000	3000	3000	3000	3000	3000
*4 1/2	114.3	12.66	18.77	0.281	7.1	100.1	-	2250	2620	3000	3000	3000	3000	3000	3000	3000	3000
*4 1/2	114.3	13.96	20.73	0.312	7.9	98.5	-	2500	2800	3000	3000	3000	3000	3000	3000	3000	3000
*4 1/2	114.3	14.98	22.42	0.337	8.6	97.1	1697	2700	2800	3000	3000	3000	3000	3000	3000	3000	3000
*5 9/16	141.3	7.26	10.90	0.125	3.2	134.9	667	810	940	1131	1232	1407	1494	1624	1755	1885	2176
*5 9/16	141.3	9.01	13.54	0.156	4.0	133.3	841	1010	1180	1406	1552	1755	1914	2016	2117	2364	2712
*5 9/16	141.3	10.79	16.16	0.188	4.8	131.7	1015	1220	1420	1697	1871	2103	2277	2437	2640	2843	3000
*5 9/16	141.3	12.50	18.74	0.219	5.6	130.1	1175	1420	1650	1987	2176	2466	2654	2828	3000	3000	3000
*5 9/16	141.3	14.62	21.92	0.258	6.6	128.1	1204	1670	1950	2335	2567	2886	3000	3000	3000	3000	3000
*5 9/16	141.3	15.85	23.50	0.281	7.1	127.1	1523	1820	2120	2553	2785	3000	3000	3000	3000	3000	3000
*5 9/16	141.3	17.50	25.99	0.312	7.9	125.5	1683	2020	2360	3000	3000	3000	3000	3000	3000	3000	3000
*5 9/16	141.3	19.17	28.45	0.344	8.7	123.9	1857	2219	2581	3000	3000	3000	3000	3000	3000	3000	3000
*5 9/16	141.3	20.78	30.88	0.375	9.5	122.3	2016	2422	2799	3000	3000	3000	3000	3000	3000	3000	3000

API 5L PLAIN END PIPE STANDARD SIZES & WEIGHTS

Outside Diameter		Plain-End Weight		Wall Thickness		Inside Diameter	Minimum Test Pressure									
							Grade A	Grade B	Grade X42	Grade X46	Grade X52	Grade X56	Grade X60	Grade X65	Grade X70	Grade X80
*6 5/8	168.3	8.68	13.03	0.125	3.2	161.9	680	790	1190	1300	1470	1581	1697	1844	1973	2277
*6 5/8	168.3	9.76	14.62	0.141	3.6	161.1	770	890	1340	1470	1660	1784	1915	2074	2234	2567
*6 5/8	168.3	10.78	16.21	0.156	4.0	160.3	850	990	1480	1620	1840	1972	2118	2292	2466	2843
*6 5/8	168.3	11.85	17.78	0.172	4.4	159.5	930	1090	1640	1790	2030	2175	2335	2524	2727	3000
*6 5/8	168.3	12.92	19.35	0.188	4.8	158.7	1020	1190	1790	1960	2210	2379	2553	2770	2973	3000
*6 5/8	168.3	13.92	20.91	0.203	5.2	157.9	1100	1290	1930	2110	2390	2567	2785	2988	3000	3000
*6 5/8	168.3	14.98	22.47	0.219	5.6	157.1	1190	1390	2080	2280	2580	2785	2973	3000	3000	3000
*6 5/8	168.3	17.02	25.55	0.250	6.4	155.5	1360	1580	2380	2600	2940	3000	3000	3000	3000	3000
*6 5/8	168.3	18.97	28.22	0.280	7.1	154.1	1520	1780	2660	2920	3000	3000	3000	3000	3000	3000
*6 5/8	168.3	21.04	31.25	0.312	7.9	152.5	1700	1980	2970	3000	3000	3000	3000	3000	3000	3000
*6 5/8	168.3	23.08	34.24	0.344	8.7	150.9	1870	2180	3000	3000	3000	3000	3000	3000	3000	3000
*6 5/8	168.3	25.03	37.20	0.375	9.5	149.3	2040	2380	3000	3000	3000	3000	3000	3000	3000	3000
*8 5/8	219.1	11.35	17.04	0.125	3.2	212.7	520	610	910	1000	1130	1240	1320	1430	1540	1760
*8 5/8	219.1	14.11	21.22	0.156	4.0	211.1	650	760	1140	1250	1410	1523	1624	1755	1900	2190
*8 5/8	219.1	16.94	25.37	0.188	4.8	209.5	780	920	1370	1500	1700	1827	1958	2132	2292	2625
*8 5/8	219.1	19.66	29.48	0.219	5.6	207.9	910	1070	1600	1750	1980	2132	2291	2480	2668	3000
*8 5/8	219.1	22.36	33.57	0.250	6.4	206.3	1040	1220	1830	2000	2260	2422	2610	2828	3000	3000
*8 5/8	219.1	24.70	36.61	0.277	7.0	205.1	1160	1350	2020	2220	2510	2712	2886	3000	3000	3000
*8 5/8	219.1	26.70	41.14	0.312	7.9	203.3	1300	1520	2280	2500	2820	3000	3000	3000	3000	3000
*8 5/8	219.1	28.58	42.65	0.322	8.2	202.7	1340	1570	2350	2580	2910	3000	3000	3000	3000	3000
*8 5/8	219.1	30.42	45.14	0.344	8.7	201.7	1440	1680	2510	2750	3000	3000	3000	3000	3000	3000
*8 5/8	219.1	33.04	49.10	0.375	9.5	200.1	1570	1830	2740	3000	3000	3000	3000	3000	3000	3000
*10 3/4	273.1	17.65	26.54	0.156	4.0	265.1	520	610	1040	1130	1280	1378	1479	1595	1726	1987
*10 3/4	273.1	21.21	31.76	0.188	4.8	263.5	630	730	1250	1370	1550	1654	1784	1929	2074	2393
*10 3/4	273.1	24.63	36.94	0.219	5.6	261.9	730	860	1450	1590	1800	1943	2074	2248	2422	2785
*10 3/4	273.1	28.04	42.09	0.250	6.4	260.3	840	980	1660	1820	2060	2205	2364	2567	2770	3000
*10 3/4	273.1	31.20	46.57	0.279	7.1	258.9	930	1090	1850	2030	2290	2465	2654	2871	3000	3000
*10 3/4	273.1	34.24	51.03	0.307	7.8	257.5	1030	1200	2040	2230	2520	2712	2900	3000	3000	3000
*10 3/4	273.1	38.23	56.72	0.344	8.7	255.7	1150	1340	2280	2500	2830	3000	3000	3000	3000	3000
*10 3/4	273.1	40.48	60.50	0.365	9.3	254.5	1220	1430	2420	2660	3000	3000	3000	3000	3000	3000
*10 3/4	273.1	48.24	71.72	0.438	11.1	250.9	1465	1711	2900	3000	3000	3000	3000	3000	3000	3000
*12 3/4	323.9	23.11	34.67	0.172	4.4	315.1	490	570	960	1050	1190	1276	1378	1493	1610	1842
*12 3/4	323.9	25.22	37.77	0.188	4.8	314.3	530	620	1050	1150	1300	1392	1493	1624	1755	2016
*12 3/4	323.9	27.20	40.87	0.203	5.2	313.5	590	690	1140	1250	1410	1523	1624	1755	1886	2176
*12 3/4	323.9	29.31	43.96	0.219	5.6	312.7	620	720	1230	1340	1520	1639	1755	1900	2045	2350
*12 3/4	323.9	33.38	50.11	0.250	6.4	311.1	710	820	1400	1530	1730	1872	2001	2175	2335	2683
*12 3/4	323.9	37.42	55.47	0.281	7.1	309.7	790	930	1570	1720	1950	2103	2248	2436	2625	3000
*12 3/4	323.9	41.45	61.56	0.312	7.9	308.1	880	1030	1750	1910	2160	2335	2494	2698	2901	3000
*12 3/4	323.9	43.77	65.35	0.330	8.4	307.1	930	1090	1850	2020	2290	2451	2640	2857	3000	3000
*12 3/4	323.9	45.58	67.62	0.344	8.7	306.5	970	1130	1930	2110	2390	2567	2741	2973	3000	3000
*12 3/4	323.9	49.56	73.65	0.375	9.5	304.9	1060	1240	2100	2300	2600	2798	3000	3000	3000	3000
*12 3/4	323.9	53.52	79.65	0.406	10.3	303.3	1160	1360	2262	2494	2813	3000	3000	3000	3000	3000
*12 3/4	323.9	57.59	82.62	0.438	11.1	301.7	1232	1436	2451	2683	3000	3000	3000	3000	3000	3000
*14	355.6	27.73	41.52	0.188	4.8	346	480	560	960	1050	1190	1276	1363	1479	1595	1826
*14	355.6	29.91	44.93	0.203	5.2	345.2	520	610	1050	1150	1300	1400	1500	1620	1750	1987
*14	355.6	30.93	45.78	0.210	5.3	345	550	640	1070	1170	1330	1436	1523	1653	1784	2031
*14	355.6	32.23	48.33	0.219	5.6	344.4	580	670	1120	1220	1380	1494	1595	1726	1856	2147
*14	355.6	36.71	55.11	0.250	6.4	342.8	640	750	1280	1400	1580	1697	1813	1972	2132	2451
*14	355.6	41.17	61.02	0.281	7.1	341.4	720	840	1430	1570	1770	1914	2045	2218	2393	2712
*14	355.6	45.61	67.74	0.312	7.9	339.8	800	940	1590	1740	1970	2118	2262	2451	2654	3000
*14	355.6	50.17	74.42	0.344	8.7	338.2	880	1030	1750	1920	2170	2335	2509	2712	2915	3000
*14	355.6	54.57	81.08	0.375	9.5	336.6	960	1120	1910	2090	2370	2552	2726	2958	3000	3000
*14	355.6	58.94	87.71	0.406	10.3	335	1060	1240	2074	2260	2552	2755	2960	3000	3000	3000
*14	355.6	63.44	94.30	0.438	11.1	333.4	1131	1305	2230	2450	2770	2970	3000	3000	3000	3000
*14	355.6	67.78	100.86	0.469	11.9	331.8	1220	1430	2390	2625	2958	3000	3000	3000	3000	3000
*14	355.6	72.09	107.39	0.500	12.7	330.2	1290	1494	2550	2785	3000	3000	3000	3000	3000	3000

API 5L PLAIN END PIPE STANDARD SIZES & WEIGHTS

Outside Diameter		Plain-End Weight		Wall Thickness		Inside Diameter	Minimum Test Pressure									
							Grade A	Grade B	Grade X42	Grade X46	Grade X52	Grade X56	Grade X60	Grade X65	Grade X70	Grade X80
in	mm	lb/ft	Kg/m	in	mm	mm										
*16	406.4	31.75	47.54	0.188	4.8	396.8	420	490	840	920	1040	1117	1204	1305	1393	1610
*16	406.4	34.25	51.45	0.203	5.2	396	460	530	910	990	1120	1204	1291	1392	1508	1741
*16	406.4	36.91	55.35	0.219	5.6	395.2	490	570	980	1070	1210	1305	1392	1508	1624	1871
*16	406.4	42.05	63.13	0.250	6.4	393.6	560	660	1120	1220	1380	1494	1595	1726	1856	2147
*16	406.4	47.17	69.91	0.281	7.1	392.2	630	740	1250	1370	1550	1668	1784	1944	2089	2380
*16	406.4	52.27	77.63	0.312	7.9	390.6	700	820	1390	1520	1720	1857	1987	2146	2322	2640
*16	406.4	57.52	85.32	0.344	8.7	389	770	900	1540	1680	1900	2045	2190	2380	2553	2915
*16	406.4	62.58	92.98	0.375	9.5	387.4	840	980	1670	1830	2070	2234	2393	2582	2785	3000
*16	406.4	67.62	100.61	0.406	10.3	385.8	930	1080	1813	1973	2234	2422	2582	2800	3000	3000
*16	406.4	72.80	108.20	0.438	11.1	384.2	986	1150	1944	2132	2422	2611	2785	3000	3000	3000
*16	406.4	77.79	115.77	0.469	11.9	382.6	1070	1250	2089	2292	2582	2785	2988	3000	3000	3000
*16	406.4	82.77	123.30	0.500	12.7	381	1120	1305	2234	2437	2755	2972	3000	3000	3000	3000
*18	457	35.76	53.53	0.188	4.8	447.4	380	440	750	820	920	986	1073	1146	1233	1421
*18	457	41.59	62.34	0.219	5.6	445.8	440	510	870	950	1080	1160	1233	1334	1451	1668
*18	457	47.39	71.12	0.250	6.4	444.2	500	580	990	1090	1230	1320	1421	1523	1653	1900
*18	457	53.18	78.77	0.281	7.1	442.8	560	660	1110	1220	1380	1494	1595	1726	1856	2118
*18	457	58.94	87.49	0.312	7.9	441.2	620	730	1240	1360	1530	1654	1770	1915	2060	2350
*18	457	64.87	96.18	0.344	8.7	439.6	690	800	1360	1490	1690	1813	1944	2103	2263	2582
*18	457	70.59	104.84	0.375	9.5	438	750	880	1490	1630	1840	1973	2118	2292	2480	2828
*18	457	76.29	113.46	0.406	10.3	436.4	820	960	1610	1755	1987	2147	2292	2495	2683	3000
*18	457	82.15	122.05	0.438	11.1	434.8	885	1020	1740	1900	2149	2321	2480	2683	2901	3000
*18	457	87.81	130.62	0.469	11.9	433.2	950	1100	1857	2045	2292	2480	2654	2872	3000	3000
*18	457	93.45	139.15	0.500	12.7	431.6	1000	1175	1973	2176	2451	2640	2828	3000	3000	3000

TOLERANCES FOR MASS

a) For special plain-end pipe	+10,0% -5, 0%	b) For Pipe in Grade L175, L175P, A25 and A25P	+10, 0% -5, 0%	c) For all other Pipes	+10, 0% -3, 5%
d) For Grades L175, L175P, A25 and A25P	- 3, 5 %	e) For all other Grades	-1, 75%		

TOLERANCES FOR DIAMETER AND OUT-OF-ROUNDNESS

Specified Outside Diameter "D" mm (in)	Diameter Tolerances mm (in)		Out-of-roundness Tolerances mm (in)	
	Pipe Except the End	Pipe End	Pipe Except the End	Pipe End
< 60,3 (2.375)	- 0,8 (0.031) to + 0,4 (0.016)	- 0,4 (0.016) to + 1,6 (0.063)	1,2 D (0.04)	0,9 D (0.036)
≥ 60,3 (2.375) to ≤ 168,3 (6.625)	± 0,007 5 D		0,020 D	0,015 D
> 168,3 (6.625) to ≤ 610 (24.000)	± 0,007 5 D but maximum of ± 3,2 (0.125)	± 0,005 D but maximum of ± 1,6 (0.063)		

TOLERANCES FOR WALL THICKNESS

Wall Thickness for Welded Pipe	Tolerance mm (in)
≤ 5,0 (0.197)	± 0,5 (0.020)
> 5,0 (0.197) to 15,0 (0.591)	± 0,1 t

d) For Individual Pipe

e) For lot of ≥20.0 MT

PHYSICAL AND CHEMICAL PROPERTIES

API 5L (PSL-1)

Standard Specification		Application	Chemical Requirement					Physical Requirement	
			C Max.	Mn Max.	P Max.	S Max.	Others	Tensile Strength Mpa (psi) Min	Yield Strength MPa (psi) Min
API 5L	L175 or A25	Line Pipe	0.21	0.60	0.030	0.030		310 (5 000)	175 (25 400)
	L175 or A25P		0.21	0.60	0.030	0.030		310 (5 000)	175 (25 400)
	L210 or A		0.22	0.90	0.030	0.030		335 (48 600)	210 (30 500)
	L245 or B		0.26	1.20	0.030	0.030		415 (60 200)	245 (35 500)
	L290 or X42		0.26	1.30	0.030	0.030		415 (60 200)	290 (42 100)
	L320 or X46		0.26	1.40	0.030	0.030		415 (60 200)	320 (46 400)
	L360 or X52		0.26	1.40	0.030	0.030		460 (66 700)	360 (52 200)
	L390 or X56		0.26	1.40	0.030	0.030		490 (71 100)	390 (56 600)
	L415 or X60		0.26	1.40	0.030	0.030		520 (75 400)	415 (60 200)
	L450 or X65		0.26	1.45	0.030	0.030		535 (77 600)	450 (65 300)
	L485 or X70		0.26	1.65	0.030	0.030		570 (82 700)	485 (70 300)

API 5L (PSL-2)

Standard Specification	Mass fraction, based upon heat and product analysis % maximum								Physical Requirement			
	C ^b	Si	Mn ^b	P	S	V	Nb	Ti	Yield Strength Mpa (psi)		Tensile Strength Mpa (psi)	
									Min.	Max.	Min.	Max.
L245M or BM	0.22	0.45	1.20	0.025	0.015	0.05	0.05	0.04	245 (35 500)	450 (65 000)	415 (60 200)	760 (110 200)
L290M or L42M	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	290 (42 100)	450 (65 000)	415 (60 200)	760 (110 200)
L320M or L46M	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	320 (46 400)	450 (65 000)	435 (63 100)	760 (110 200)
L390M or X52M	0.22	0.45	1.40	0.025	0.015	d	d	d	360 (52 200)	450 (65 000)	460 (66 700)	760 (110 200)
L390M or X56M	0.22	0.45	1.40	0.025	0.015	d	d	d	390 (56 600)	450 (65 000)	490 (71 100)	760 (110 200)
L415M or X60M	0.12	0.45	1.60	0.025	0.015	g	g	g	415 (60 200)	450 (65 000)	520 (75 400)	760 (110 200)
L450M or X65M	0.12	0.45	1.60	0.025	0.015	g	g	g	450 (65 300)	450 (65 000)	535 (77 600)	760 (110 200)
L485M or X70M	0.12	0.45	1.70	0.025	0.015	g	g	g	485 (70 300)	450 (65 000)	570 (82 700)	760 (110 200)

ASTM A 53 - 89 PLAIN END PIPE STANDARD SIZES & WEIGHTS

Nominal Size	Outside Diameter		Wall Thickness			Weight			Test Pressure			
									Grade A		Grade B	
in	in	mm	in	mm	Sch. No	lb/ft	Kg/m	Kg/ft	Psi	Kg/cm ²	Psi	Kg/cm ²
-	-	-	-	-	-	-	-	-	-	-	-	-
1/2"	0.840	21.3	0.109	2.77	40 (STD)	0.85	1.27	3.9	700	49	700	49
-	-	-	-	-	-	-	-	-	-	-	-	-
3/4"	1.050	26.7	0.113	2.87	40 (STD)	1.13	1.69	0.51	700	49	700	49
-	-	-	-	-	-	-	-	-	-	-	-	-
1"	1.315	33.4	0.133	3.38	40 (STD)	1.68	2.50	0.76	700	49	700	49
-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/4"	1.660	42.2	0.140	3.56	40 (STD)	2.27	3.39	1.03	1200	70	1300	77
-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2"	1.900	48.3	0.145	3.68	40 (STD)	2.72	4.05	1.23	1200	70	1300	77
-	-	-	-	-	-	-	-	-	-	-	-	-
2"	2.375	60.3	0.154	3.91	40 (STD)	3.66	5.44	1.67	2300	162	2500	176
-	-	-	-	-	-	-	-	-	-	-	-	-
2 1/2"	2.875	73.0	0.203	5.16	40 (STD)	5.80	8.63	2.64	2500	176	2500	176
3"	3.500	88.9	0.125	3.18	-	4.51	6.72	2.05	1290	91	1500	105
3"	3.500	88.9	0.156	3.96	-	5.58	8.29	2.53	1600	112	1870	131
3"	3.500	88.9	0.188	4.78	-	6.66	9.92	3.02	1930	136	2260	159
3"	3.500	88.9	0.216	5.49	40 (STD)	7.58	11.29	3.44	2220	156	2500	176
3 1/2"	4.000	101.6	0.125	3.18	-	5.18	7.72	2.35	1120	79	1310	92
3 1/2"	4.000	101.6	0.156	3.96	-	6.41	9.53	2.90	1400	98	1640	115
3 1/2"	4.000	101.6	0.188	4.78	-	7.66	11.41	3.47	1690	119	1970	139
3 1/2"	4.000	101.6	0.226	5.74	40 (STD)	9.12	13.57	4.13	2030	143	2370	167
4"	4.500	114.3	0.125	3.18	-	5.85	8.71	2.65	1000	70	1170	82
4"	4.500	114.3	0.156	3.96	-	7.24	10.78	3.28	1250	88	1460	103
4"	4.500	114.3	0.188	4.78	-	8.67	12.91	3.93	1500	105	1750	123
4"	4.500	114.3	0.219	5.56	-	10.02	14.91	4.54	1750	123	2040	143
4"	4.500	114.3	0.237	6.02	40 (STD)	10.80	16.07	4.89	1900	134	2210	155
5"	5.563	141.3	0.156	3.96	-	9.02	13.41	4.09	1010	71	1180	83
5"	5.563	141.3	0.188	4.78	-	10.80	16.09	4.89	1220	86	1420	100
5"	5.563	141.3	0.219	5.56	-	12.51	18.61	5.67	1420	100	1650	116
5"	5.563	141.3	0.258	6.55	40 (STD)	14.63	21.77	6.63	1670	117	1950	137
6"	6.625	168.3	0.188	4.78	-	12.94	19.27	5.86	1020	72	1190	84
6"	6.625	168.3	0.219	5.56	-	15.00	22.31	6.79	1190	84	1390	98
6"	6.625	168.3	0.250	6.35	-	17.04	25.36	7.72	1360	96	1580	111
6"	6.625	168.3	0.280	7.11	40 (STD)	18.99	28.26	8.60	1520	107	1780	125
8"	8.625	219.1	0.188	4.78	-	16.96	25.26	7.68	780	55	920	65
8"	8.625	219.1	0.203	5.16	-	18.28	27.22	8.28	850	60	1000	70
8"	8.625	219.1	0.219	5.56	-	19.68	29.28	8.92	910	64	1070	75
8"	8.625	219.1	0.250	6.35	20	22.38	33.31	10.14	1040	73	1220	86
8"	8.625	219.1	0.277	7.04	30	24.72	36.31	11.20	1160	82	1350	95
8"	8.625	219.1	0.312	7.92	-	27.73	41.24	12.56	1300	91	1520	107
8"	8.625	219.1	0.322	8.18	40 (STD)	28.58	42.55	12.95	1340	94	1570	110
10"	10.750	273.0	0.188	4.78	-	21.23	31.62	9.62	630	44	730	51
10"	10.750	273.0	0.203	5.16	-	22.89	34.08	10.37	680	48	800	56
10"	10.750	273.0	0.219	5.56	-	24.65	36.67	11.17	730	51	860	60
10"	10.750	273.0	0.250	6.35	20	28.06	41.75	12.72	840	59	980	69
10"	10.750	273.0	0.279	7.09	-	31.23	46.49	14.15	930	65	1090	77
10"	10.750	273.0	0.307	7.80	30	34.27	51.01	15.53	1030	72	1200	84
10"	10.750	273.0	0.344	8.74	-	38.27	56.96	17.34	1150	81	1340	94
10"	10.750	273.0	0.365	9.27	40 (STD)	40.52	60.29	18.36	1220	86	1430	101

ASTM A 53 - 89 PLAIN END PIPE STANDARD SIZES & WEIGHTS

Nominal Size	Outside Diameter		Wall Thickness			Weight			Test Pressure			
									Grade A		Grade B	
in	in	mm	in	mm	Sch. No	lb/ft	Kg/m	Kg/ft	Psi	Kg/cm ²	Psi	Kg/cm ²
12	12.750	323.8	0.203	5.16	-	27.23	40.55	12.34	570	40	670	47
12	12.750	323.8	0.219	5.56	-	29.34	43.63	13.29	620	44	720	51
12	12.750	323.8	0.250	6.35	20	33.41	49.71	15.14	710	50	820	58
12	12.750	323.8	0.281	7.14	-	37.46	55.75	16.97	790	56	930	65
12	12.750	323.8	0.312	7.92	-	41.48	61.69	18.80	880	62	1030	72
12	12.750	323.8	0.330	8.38	30	43.81	65.18	19.85	930	65	1090	77
12	12.750	323.8	0.344	8.74	-	45.62	67.90	20.67	970	68	1130	79
12	12.750	323.8	0.375	9.52	-	49.61	73.78	22.48	1060	75	1240	87
12	12.750	323.8	0.406	10.31	40 (STD)	53.57	79.70	24.28	1150	81	1340	94
14	14.000	355.6	0.210	5.33	-	30.96	46.04	14.03	540	38	630	44
14	14.000	355.6	0.219	5.56	-	32.26	47.99	14.62	560	39	660	46
14	14.000	355.6	0.250	6.35	10	36.75	54.69	16.65	640	45	750	53
14	14.000	355.6	0.281	7.14	-	41.21	61.35	18.67	720	51	840	59
14	14.000	355.6	0.312	7.92	20	45.65	67.90	20.69	800	56	940	66
14	14.000	355.6	0.344	8.74	-	50.22	74.76	22.76	880	62	1030	72
14	14.000	355.6	0.375	9.52	30	54.62	81.25	24.75	960	67	1120	79
14	14.000	355.6	0.438	11.13	40 (STD)	63.50	94.55	28.78	1130	79	1310	92
16	16.000	406.4	0.219	5.56	-	36.95	54.96	16.74	490	34	570	40
16	16.000	406.4	0.250	6.35	10	42.09	62.64	19.07	560	39	660	46
16	16.000	406.4	0.281	7.14	-	47.22	70.30	21.40	630	44	740	52
16	16.000	406.4	0.312	7.92	20	52.32	77.83	23.71	700	49	820	58
16	16.000	406.4	0.344	8.74	-	57.57	85.71	26.09	770	54	900	63
16	16.000	406.4	0.375	9.52	30 (STD)	62.64	93.17	28.39	840	59	980	69
16	16.000	406.4	0.438	11.13	-	72.86	108.49	33.02	990	70	1150	81
16	16.000	406.4	0.469	11.91	-	77.87	115.86	35.28	1060	75	1230	86
16	16.000	406.4	0.500	12.70	40 (XS)	82.85	123.30	37.54	1120	79	1310	92
18	18.000	457.2	0.250	6.35	10	47.44	70.60	21.50	500	35	580	41
18	18.000	457.2	0.281	7.14	-	53.23	79.24	24.12	560	39	660	46
18	18.000	457.2	0.312	7.92	20	58.99	87.75	26.73	620	44	730	51
18	18.000	457.2	0.344	8.74	-	64.93	96.66	29.42	690	49	800	56
18	18.000	457.2	0.375	9.52	STD	70.65	105.10	32.02	750	53	880	62
18	18.000	457.2	0.406	10.31	-	76.36	113.62	34.60	810	57	950	67
18	18.000	457.2	0.438	11.13	30	82.23	122.43	37.26	880	62	1020	72
18	18.000	457.2	0.469	11.91	-	87.89	130.78	39.83	940	66	1090	77
18	18.000	457.2	0.500	12.70	XS	93.54	139.20	42.39	1000	70	1170	82
18	18.000	457.2	0.562	14.27	40	104.76	155.87	47.48	1120	79	1310	92

PHYSICAL AND CHEMICAL PROPERTIES

Standard Specification			Applica-tion	Chemical Requirement				Physical Requirement		Permissible Variations in Weight and Dimensions
				C Max.	Mn Max.	P Max.	S Max.	Tensile Strength Mpa (psi) Min	Yield Strength Mpa (psi) Min	
ASTM A-53	GRADE	A	Line Pipe	0.25	0.95	0.05	0.045	330 (48 000)	205 (30 000)	Weight = $\pm 10\%$ Diameter = $\leq \text{Nps } 1 \frac{1}{2}'' = \pm 1/64 \text{ in } (0.4\text{mm})$ $\geq \text{Nps } 2'' = \pm 1\%$ Thickness = -12.5% The hydrostatic pressure shall be maintained for not less than 5 sec for all sizes
		B		0.30	1.20	0.05	0.045	415 (60 000)	240 (35 000)	

BOILER AND AIR PRE HEATER TUBES

We offer a large assortment of precisely designed **Boiler and Air Pre Heater Tubes** also called as (Air Heater Tubes or APH Tubes). We have carved a niche as one of the major Boiler and Air Pre Heater Tubes manufacturers and suppliers.

Our High Pressure Boiler and Air Pre Heater Tubes are manufactured from the premium raw materials under strict quality norms as per ASTM A214 / 1990 and BS EN 10216-1:2002, BS EN 10217-1:2002. Boiler Tubes are offered in various sizes to match the requirements of the clients. Our Boiler Tubes are extensively used in the Chemical, Sugar and Paper Industry.



TUBULAR LIGHTING POLES

■ STEPPED POLES

Stepped Poles are fabricated from steel pipes of different diameters and thicknesses ranging from 4 meters to 13 meters height.

■ OCTAGONAL POLES

These poles are fabricated from high grade hot rolled steel sheet by an automated procedure of cutting and folding / pressing the same.

CAPACITY: 75 mm X 130 mm to 105 mm X 375 mm

■ ROUND CONICAL POLES

Besides decorative Lighting Poles, Round Conical Poles are also fabricated by high grade hot rolled steel sheet.

CAPACITY: 75 mm X 140 mm to 105 mm X 310 mm

■ DECORATIVE POLES

Bashir Lighting Poles also fabricate Decorative Poles suitable for gardens, parks and urban areas in different eye catching designs.

■ HIGH MAST POLES

Our vast selection of High Mast Lighting Poles is designed and manufactured for durability, wear and corrosion resistance and visual appeal.

CAPACITY: 60 feet to 150 feet



HOLLOW STRUCTURAL SECTION (HSS)

We provide a wide range of high quality Hollow Sections. Our Hollow Sectional Tubes are manufactured from the finest quality HR Coil materials to add durability. We have firmly positioned ourselves as one of the prime HR Sectional Tube Manufacturers and Suppliers.

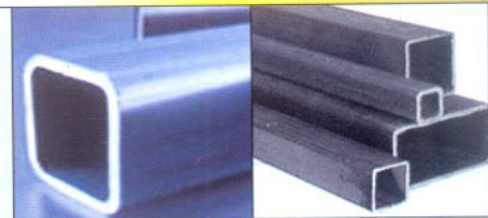
Our HR Sectional Tubes are widely used in the following:

- Fabrications
- Furniture making
- Heavy Racks
- Towers
- Over Head Bridges
- Supporting system for any infrastructure



STRUCTURAL TUBES

We manufacture and export hollow sections, structural hollow sections, hollow steel sections, square /rectangular hollow sections, round hollow sections, mild steel black ERW square tubes, rectangular tubes & round hollow section tubes and hot rolled steel sections as per BS EN 10305-5: 2003 (Formerly BS 6323-5: 1982) and ASTM A500 GR A/1993. These sections are available with anti rust oil coating from inside & outside to ensure safe delivery to end users. The following, but not limited to, sizes are produced and available.



Dimensions & Masses of Plain End Casing Pipes

Sizes		Sizes	
3/8" X 3/8"	10 X 10	1 1/2" X 1 1/2"	40 X 40
1/2" X 1/2"	13 X 13	1" X 2"	25 X 50
5/8" X 5/8"	16 X 16	1 1/4" X 2"	30 X 50
3/8" X 3/4"	10 X 20	2" X 2"	50 X 50
3/4" X 3/4"	20 X 20	1 1/2" X 2"	40 X 50
1/2" X 1"	13 X 25	1 1/4" X 2 1/2"	30 X 60
1" X 1"	25 X 25	1" X 3"	25 X 80
1/2" X 1 1/2"	13 X 40	1 1/2" X 3"	40 X 80
1 1/4" X 1 1/4"	30 X 30	1 1/2" X 4"	40 X 100
3/4" X 1 1/2"	20 X 40	2" X 4"	50 X 100
1" X 1 1/2"	25 X 40	3" X 3"	76 X 76
6" X 6"	150 X 150	4" X 4"	100 X 100
		8" X 8"	200 X 200

Tolerances:

Length: +/- 50 mm
Wall Thickness: +/- 12.5%

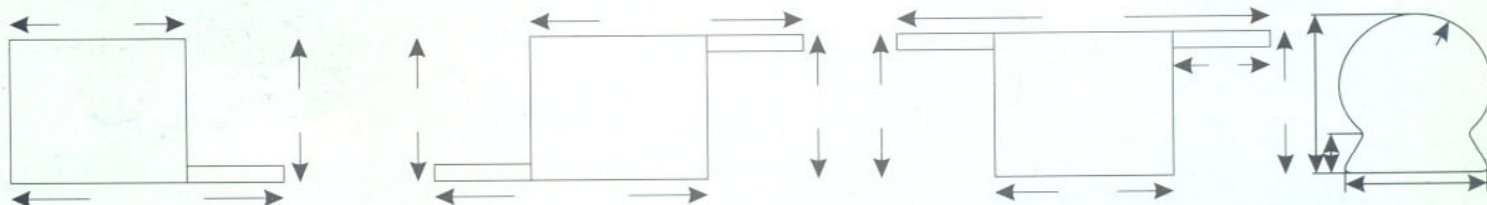
Application

Furniture Industry & Domestic Applications. Bus Body, Fencing etc. Sizes other than mentioned above can also be produced upon specific requirements.

The Thickness of the above dimensions are available in 0.30mm To 8.00mm.

LTZD SECTIONS

The superior quality of LTZD sections are made of the best raw material with anti-rust oil coating, both at the inner and the outer surfaces of the section. These sections profiles are available in different lengths, thicknesses and weights. These can be used in domestic applications, bus body, fencing and for lot of other purposes and as per the specifications of the customers.



IN-HOUSE TESTING FACILITIES

■ HYDROSTATIC TEST

Each Tube and / or Length is tested for leakage. Pipes are hydrostatically tested upto 3000psi as per BSEN, ASTM & API Standards.



■ GALVANIZING TEST

Pipes are coated with pure zinc through hot dip process. The uniformly adherent coating of zinc on pipes is checked and tested in house as per prescribed methods in BS EN and ASTM Standards i.e, Copper sulphate test and weight of zinc coating test.



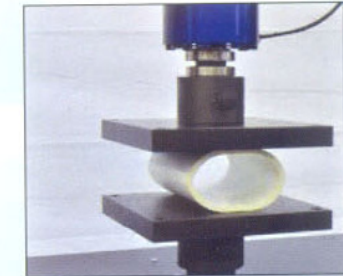
■ BEND TEST

Bend Test is applied to tubes up to DN 50. Tested in accordance to BSEN and ASTM Standards. This test is also conducted in house on Bend Test Machine to check the quality of welding or joint of pipe.



■ FLATTENING TEST

This test is also conducted on pipe in house on Flattening Testing Machine to validate the welding joint of pipe over DN 50. Flattening Test is done as per BSEN, ASTM and API standards.



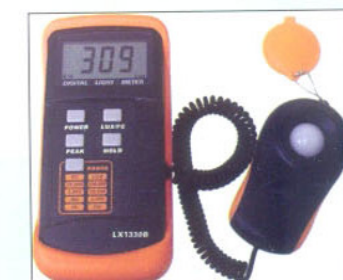
■ NDI TEST

The Weld Seam of each length of ERW pipe NPS 2 and larger is tested with nondestructive electric test. BPI is equipped with NDI machine that tests online Weld Seam of each length.



■ LUX TEST

A device is used to measure the amount of light required for working environment to complete a job or task satisfactorily. Lux Machine is used frequently to measure the amount of light within the specified area of job.



BASHIR HIGH DENSITY POLYETHYLENE PIPE

State of the Art, most modern, Sino German Technology is used in the machinery and all equipments producing Bashir High Density Polyethylene Pipe meeting all international standards.



Meeting high production standards and keeping excellence in quality control, Bashir High Density Polyethylene Pipes are manufactured in all SDR's, grade up to & including PE-100 & PE 80, ranging from 20mm to 450mm for Oil & Gas, Potable Water and Distribution Pipe Line.

To ensure implementation of Client's specifications, and for strict quality control, Bashir High Density Polyethylene Pipe have in-house laboratory, fully equipped with latest testing equipments and machinery, capable to test PE pipe in accordance with international standards.



BASHIR PE PIPE STANDARD SPECIFICATION (WATER PIPE)

DN	SDR 11 (PN 16)	SDR 13.6 (PN 12.5)	SDR 17 (PN 10)	SDR 21 (PN 8)
O.D (mm)	e (mm)	e (mm)	e (mm)	e (mm)
20	2.0	-	-	-
25	2.3	2.0	-	-
32	3.0	2.4	2.0	-
40	3.7	3.0	2.4	2.0
50	4.6	3.7	3.0	2.4
63	5.8	4.7	3.8	3.0
75	6.8	5.6	4.5	3.6
90	8.2	6.7	5.4	4.3
110	10.0	8.1	6.6	5.3
125	11.4	9.2	7.4	6.0
140	12.7	10.3	8.3	6.7
160	14.6	11.8	9.5	7.7
180	16.4	13.3	10.7	8.6
200	18.3	14.7	11.9	9.6
225	30.5	16.6	13.4	10.8
250	22.7	18.4	14.8	11.9
280	25.4	20.6	16.6	13.4
315	28.6	23.2	18.7	15.0
355	32.2	29.4	21.1	16.9
400	36.3	32.2	23.7	19.1
450	40.9	33.1	26.7	21.5

Quality is our domain...



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TEL: (042) 37164361-64

FAX: (042) 37164365

E-MAIL: mills@bpi.com.pk

UNIT II:

Off-20 km, SHEIKHUPURA ROAD, LAHORE