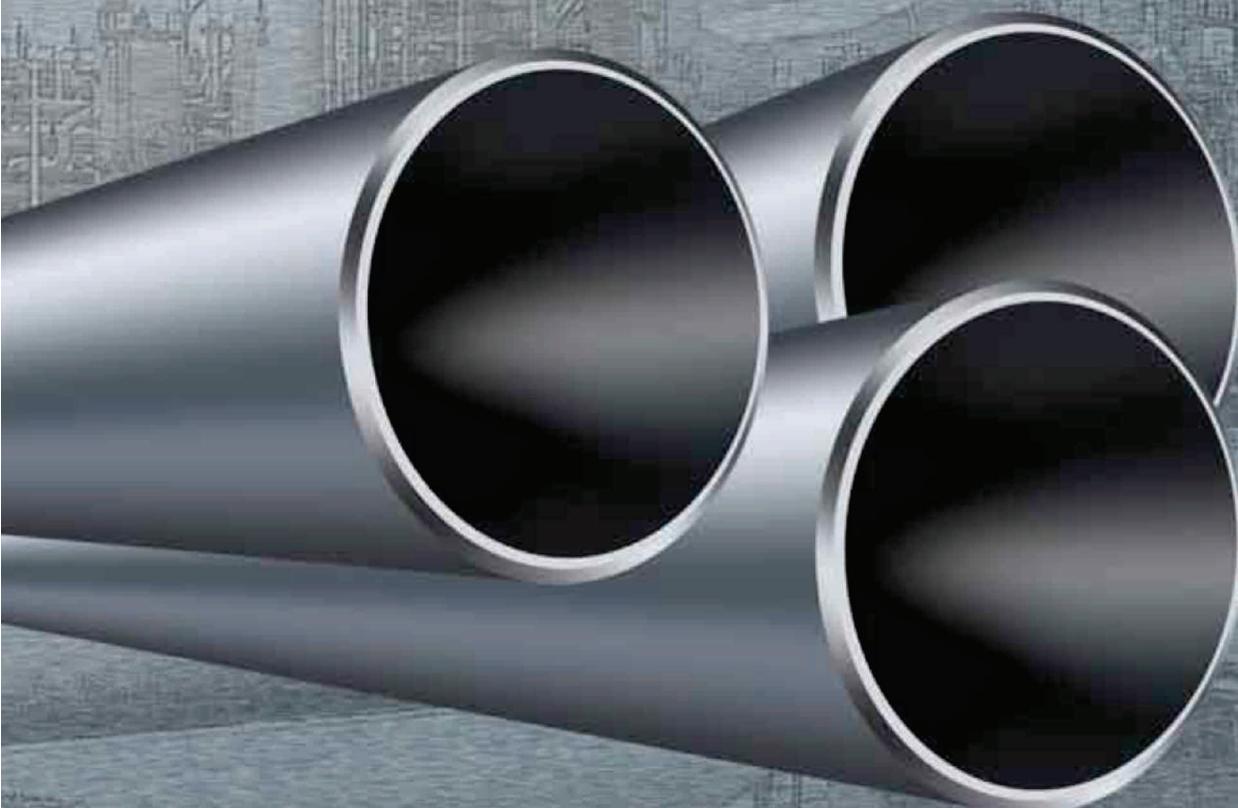


**JINDAL**  
D.P. JINDAL GROUP

Large Diameter

# ERW

PIPES & TUBES



**MAHARASHTRA SEAMLESS LIMITED**  
( ERW Division )  
An ISO 9001:2008 Company

## Company Profile

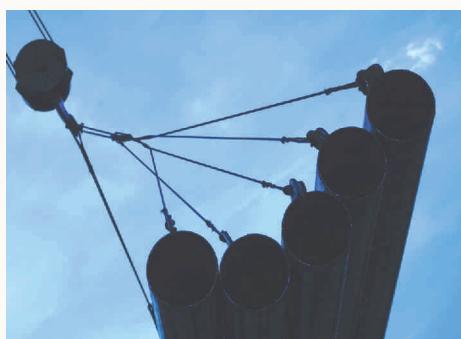
Maharashtra Seamless Limited, the flagship company of the D.P. Jindal Group, is the largest manufacturer of Seamless Pipes & Tubes in India. The company is also manufacturing the largest diameter ERW pipes in the country, ranging from  $\frac{1}{2}$  to 20 with wall thickness ranging from 2mm to 12.7mm (Black and Galvanized). The state-of-the-art plant of Mannesmann, Germany, is India's first, par excellence "Largest Outer Diameter" ERW pipe manufacturing plant having maximum welding speed of 33 meters per minute with an installed capacity of 1,50,000 MT per annum.

JINDAL STAR ERW Steel Pipes are serving the Oil and Gas Sector, including Cross Country Pipelines. These pipes are also utilized in petrochemical industries, refineries, water and sewage applications.

Group company Jindal Pipes Limited is one of the most established, best and largest manufacturer of ERW, Black and Galvanized, Steel Pipes & Tubes. Maharashtra Seamless Limited and Jindal Pipes Limited, together, make JINDAL STAR, the largest selling ERW Pipes & Tubes brand in India with diverse manufacturing locations catering to requirements across the country. All manufacturing locations are ISO, API and BIS certified and manufacture products conforming to various Indian and International Standards.

## Product Applications

A wide range of application is found in almost every sector of activities viz:



## Product Specification and Application

API 5L (IS/ISO:3183)	Steel Pipe for Oil & Gas line
API 5CT	Steel casing pipe for Oil Wells
ASTM A53	Steel pipe for Water, Gas, Steam & Air lines
IS:1161	Steel Tubes for Structural Purposes
IS:3589	Steel pipes for Water, Gas & Sewage
IS:4270	Steel pipes for Water Well casing

## System Specification

API Q1	Specification for Quality Programs for the Petroleum, Petro Chemical and Natural Gas Industry
ISO 9001	Quality Management Systems Requirements

# ERW LINE PIPES CONFORMING TO API 5L, IS/ISO:3183

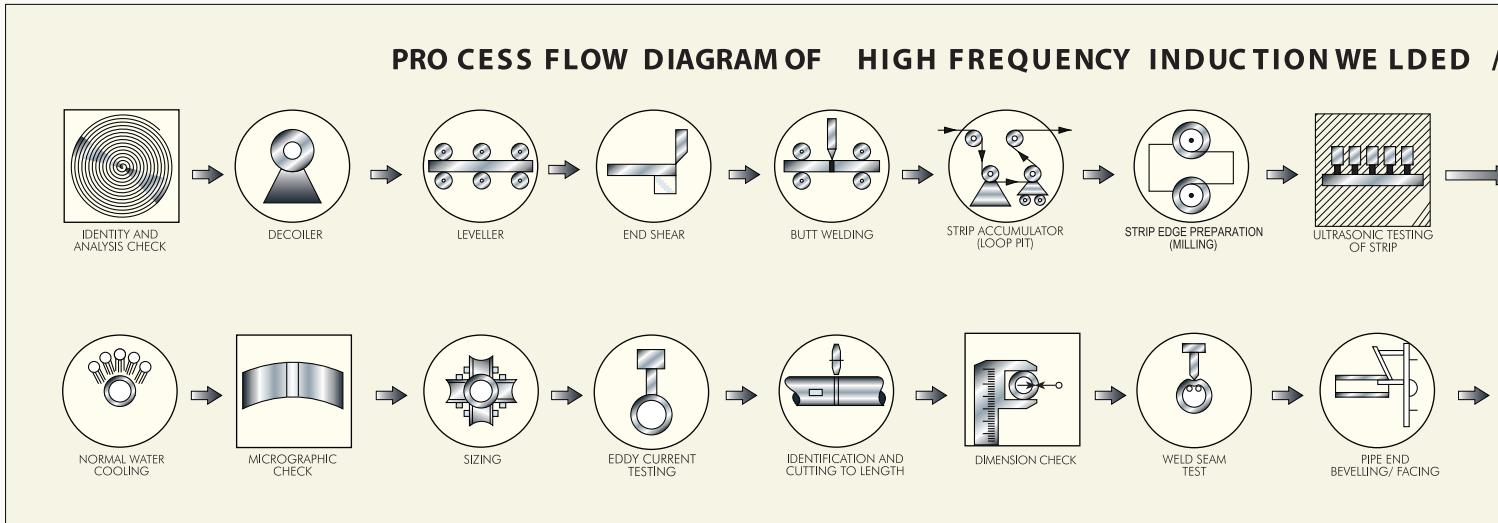
## Dimensions, Weights and Test Pressures for Sizes 6 5/8" through 20" (SI Units)

Size	Specified Outside Diameter	Specified Wall Thickness	Plain-end Weight per Unit Length	Calculated Inside Diameter	Minimum Test Pressure (kPa x 100)												
					D (mm)	t (mm)	Wpe (Kg/m)	d (mm)	Grade A25	Grade A	Grade B	Grade X-42	Grade X-46	Grade X-52	Grade X-56	Grade X-60	Grade X-65
6 5/8"	168.3	3.2	13.03	161.9	-	48	56	83	91	103	111	118	128	138			
	168.3	3.6	14.62	161.1	-	54	63	93	103	116	125	133	144	156			
	168.3	4.0	16.21	160.3	-	60	70	103	114	128	139	148	160	173			
	168.3	4.4	17.78	159.5	-	66	77	114	125	141	153	163	176	190			
	168.3	4.8	19.35	158.7	-	72	84	124	137	154	167	178	193	205			
	168.3	5.2	20.91	157.9	-	78	91	134	148	167	181	192	205	205			
	168.3	5.6	22.47	157.1	-	84	98	145	160	180	195	205	205	205			
	168.3	6.4	25.55	155.5	-	96	112	165	183	205	205	205	205	205			
	168.3	7.1	28.22	154.1	-	106	124	184	202	205	205	205	205	205			
8 5/8"	219.1	4.0	21.22	211.1	-	46	54	79	88	99	107	114	123	133			
	219.1	4.8	25.37	209.5	-	55	64	95	105	118	128	136	148	159			
	219.1	5.2	27.43	208.7	-	60	70	103	114	128	139	148	160	173			
	219.1	5.6	29.48	207.9	-	64	75	111	123	138	150	159	173	186			
	219.1	6.4	33.57	206.3	-	74	86	127	140	158	171	182	197	205			
	219.1	7.0	36.61	205.1	-	81	94	139	153	173	187	199	205	205			
	219.1	7.9	41.14	203.3	-	91	106	157	173	195	205	205	205	205			
	219.1	8.2	42.65	202.7	-	94	110	163	180	202	205	205	205	205			
	219.1	8.7	45.14	201.7	-	100	117	173	191	205	205	205	205	205			
	219.1	9.5	49.10	200.1	-	109	127	189	205	205	205	205	205	205			
	219.1	11.1	56.94	196.9	-	128	149	205	205	205	205	205	205	205			
	219.1	12.7	64.64	193.7	-	146	170	205	205	205	205	205	205	205			
10 3/4"	273.1	4.0	26.54	265.1	-	37	43	72	80	90	97	103	112	121			
	273.1	4.8	31.76	263.5	-	44	52	87	96	108	117	124	134	145			
	273.1	5.2	34.35	262.7	-	48	56	94	104	117	126	134	146	157			
	273.1	5.6	36.94	261.9	-	52	60	101	112	125	136	145	157	169			
	273.1	6.4	42.09	260.3	-	59	69	116	127	143	155	165	179	193			
	273.1	7.1	46.57	258.9	-	66	76	128	141	159	172	183	199	205			
	273.1	7.8	51.03	257.5	-	72	84	141	155	175	189	202	205	205			
	273.1	8.7	56.72	255.7	-	80	94	157	173	195	205	205	205	205			
	273.1	9.3	60.50	254.5	-	86	100	168	185	205	205	205	205	205			
	273.1	11.1	71.72	250.9	-	102	120	200	205	205	205	205	205	205			
	273.1	12.7	81.55	247.7	-	117	137	205	205	205	205	205	205	205			
12 3/4"	323.9	4.4	34.67	315.1	-	34	40	67	74	83	90	96	104	112			
	323.9	4.8	37.77	314.3	-	37	44	73	81	91	98	105	113	122			
	323.9	5.2	40.87	313.5	-	40	47	79	87	98	106	113	123	132			
	323.9	5.6	43.96	312.7	-	44	51	85	94	106	115	122	132	143			
	323.9	6.4	50.11	311.1	-	50	58	97	107	121	131	139	151	163			
	323.9	7.1	55.47	309.7	-	55	64	108	119	134	145	155	168	181			
	323.9	7.9	61.56	308.1	-	61	72	120	133	149	162	172	187	201			
	323.9	8.4	65.35	307.1	-	65	76	128	141	159	172	183	198	205			
	323.9	8.7	67.62	306.5	-	68	79	132	146	164	178	189	205	205			
	323.9	9.5	73.65	304.9	-	74	86	145	160	179	194	205	205	205			
	323.9	10.3	79.65	303.3	-	80	94	157	173	195	205	205	205	205			
	323.9	11.1	85.62	301.7	-	86	101	169	186	205	205	205	205	205			
	323.9	12.7	97.46	298.5	-	99	115	193	205	205	205	205	205	205			
14"	355.6	4.8	41.52	346.0	-	34	40	67	73	83	89	95	103	111			
	355.6	5.2	44.93	345.2	-	37	43	72	80	89	97	103	112	121			
	355.6	5.3	45.78	345.0	-	38	44	74	81	91	99	105	114	123			
	355.6	5.6	48.33	344.4	-	40	46	78	86	96	104	111	121	130			
	355.6	6.4	55.11	342.8	-	45	53	89	98	110	119	127	138	148			
	355.6	7.1	61.02	341.4	-	50	59	98	109	122	132	141	153	165			
	355.6	7.9	67.74	339.8	-	56	65	110	121	136	147	157	170	183			
	355.6	8.7	74.42	338.2	-	62	72	121	133	150	162	173	187	202			
	355.6	9.5	81.08	336.6	-	67	79	132	145	163	177	188	204	205			
	355.6	10.3	87.71	335.0	-	73	85	143	158	177	192	204	205	205			
	355.6	11.1	94.30	333.4	-	79	92	154	170	191	205	205	205	205			
	355.6	11.9	100.86	331.8	-	84	98	165	182	204	205	205	205	205			
	355.6	12.7	107.39	330.2	-	90	105	176	194	205	205	205	205	205			
16"	406.4	4.8	47.54	396.8	-	30	35	58	64	72	78	83	90	97			
	406.4	5.2	51.45	396.0	-	32	38	63	70	78	85	90	98	106			
	406.4	5.6	55.35	395.2	-	35	41	68	75	84	91	97	105	114			
	406.4	6.4	63.13	393.6	-	40	46	78	86	96	104	111	120	130			
	406.4	7.1	69.91	392.2	-	44	51	86	95	107	116	123	134	144			
	406.4	7.9	77.63	390.6	-	49	57	96	106	119	129	137	149	160			
	406.4	8.7	85.32	389.0	-	54	63	106	117	131	142	151	164	177			
	406.4	9.5	92.98	387.4	-	59	69	115	127	143	155	165	179	193			
	406.4	10.3	100.61	385.8	-	64	75	125	138	155	168	179	194	205			
	406.4	11.1	108.20	384.2	-	69	80	135	149	167	181	193	205	205			
	406.4	11.9	115.77	382.6	-	74	86	144	159	179	194	205	205	205			
	406.4	12.7	123.30	381.0	-	79	92	154	170	191	205	205	205	205			
18"	457.0	4.8	53.53	447.4	-	27	31	52	57	64	70	74	80	87			
	457.0	5.6	62.34	445.8	-	31	36	60	67	75	81	87	94	101			

Size	Specified Outside Diameter	Specified Wall Thickness	Plain-end Weight per Unit Length	Calculated Inside Diameter	Minimum Test Pressure (kPa x 100)												
					D (mm)	t (mm)	W <sub>pe</sub> (Kg/m)	d (mm)	Grade A25	Grade A	Grade B	Grade X-42	Grade X-46	Grade X-52	Grade X-56	Grade X-60	Grade X-65
	457.0	6.4	71.12	444.2	-	35	41	69	76	86	93	99	107	116			
	457.0	7.1	78.77	442.8	-	39	46	77	85	95	103	110	119	128			
	457.0	7.9	87.49	441.2	-	44	51	85	94	106	115	122	132	143			
	457.0	8.7	96.18	439.6	-	48	56	94	104	117	126	134	146	157			
	457.0	9.5	104.84	438.0	-	52	61	103	113	127	138	147	159	171			
	457.0	10.3	113.46	436.4	-	57	66	111	123	138	149	159	172	186			
	457.0	11.1	122.05	434.8	-	61	71	120	132	149	161	171	186	200			
	457.0	11.9	130.62	433.2	-	66	77	128	142	159	173	184	199	205			
	457.0	12.7	139.15	431.6	-	70	82	137	151	170	184	196	205	205			
20"	508.0	5.6	69.38	496.8	-	28	32	58	64	71	77	82	89	96			
	508.0	6.4	79.16	495.2	-	32	37	66	73	82	88	94	102	110			
	508.0	7.1	87.70	493.8	-	35	41	73	81	91	98	104	113	122			
	508.0	7.9	97.43	492.2	-	39	46	81	90	101	109	116	126	136			
	508.0	8.7	107.12	490.6	-	43	50	89	99	111	120	128	139	150			
	508.0	9.5	116.78	489.0	-	47	55	98	108	121	131	140	152	163			
	508.0	10.3	126.41	487.4	-	51	60	106	117	131	142	152	164	177			
	508.0	11.1	136.01	485.8	-	55	64	114	126	142	153	163	177	191			
	508.0	11.9	145.58	484.2	-	59	69	122	135	152	164	175	190	205			
	508.0	12.7	155.12	482.6	-	63	74	131	144	162	176	187	203	205			

## ERW CASING CONFORMING TO API 5CT

DIMENSIONS, WEIGHTS AND END FINISH													
Outside Diameter		Normal Weight T&C		Normal Weight Plain-end		Wall Thickness		Type of Finish Grade		Coupling OD	Thread Types TPI		
In.	mm	lb/ft.	Kg/mtr	lb/ft.	Kg/mtr	Inch	mm	H-40	J-55 K-55	mm	STC LTC	BTC	
6 5/8	168.28	20.00	29.76	19.51	29.06	0.288	7.32	PS	PSLB	187.71	8	5	
6 5/8	168.28	24.00	35.72	23.60	35.13	0.352	8.94	-	PSLB	187.71	8	5	
7	177.80	20.00	29.76	19.56	29.12	0.272	6.91	PS	PSLB	200.03	8	-	
7	177.80	23.00	34.23	22.65	33.70	0.317	8.05	-	PSLB	200.03	8	5	
7	177.80	26.00	38.69	25.69	38.21	0.362	9.19	-	PSLB	200.03	8	5	
8 5/8	219.08	24.00	35.72	23.60	35.14	0.264	6.71	-	PS	244.48	8	-	
8 5/8	219.08	28.00	41.67	27.04	40.24	0.304	7.72	PS	-	244.48	8	-	
8 5/8	219.08	32.00	47.62	31.13	46.33	0.352	8.94	PS	PSLB	244.48	8	5	
8 5/8	219.08	36.00	53.57	35.17	52.35	0.400	10.16	-	PSLB	244.48	8	5	
9 5/8	244.48	32.30	48.07	31.06	46.20	0.312	7.92	PS	PSLB	269.88	8	-	
9 5/8	244.48	36.00	53.57	34.89	51.93	0.352	8.94	PS	PSLB	269.88	8	5	
9 5/8	244.48	40.00	59.53	38.97	57.99	0.395	10.03	-	PSLB	269.88	8	5	
10 3/4	273.05	32.75	48.74	31.23	46.50	0.279	7.09	PS	-	298.45	8	-	
10 3/4	273.05	40.50	60.27	38.91	57.91	0.350	8.89	PS	PSB	298.45	8	5	
10 3/4	273.05	45.50	67.71	44.26	65.87	0.400	10.16	-	PSB	298.45	8	5	
10 3/4	273.05	51.00	75.90	49.55	73.75	0.450	11.43	-	PSB	298.45	8	5	
13 3/8	339.72	48.00	71.43	46.02	68.48	0.330	8.38	PS	-	365.12	8	-	
13 3/8	339.72	54.50	81.10	52.79	78.55	0.380	9.65	-	PSB	365.12	8	5	
13 3/8	339.72	61.00	90.78	59.50	88.55	0.430	10.92	-	PSB	365.12	8	5	
13 3/8	339.72	68.00	101.19	66.17	98.46	0.480	12.19	-	PSB	365.12	8	5	



# STEAM, WATER, GAS AND AIR LINE ERW PIPES CONFORMING TO ASTM A-53

## DIMENSION AND WEIGHT

Nominal Pipe Size mm/inch	OD mm	SCHEDULE WALL THICKNESS (mm) / WEIGHT (kg/m)								
		Sch 10	Sch 20	Sch 30	STD	Sch 40	XS	Sch 60	Sch 80	
150	6	168.30	-	-	-	7.11	7.11	10.97	-	10.97
200	8	219.10	-	6.35	7.04	8.18	8.18	42.56	-	42.56
250	10	273.00	-	6.35	7.80	9.27	9.27	12.70	10.31	12.70
300	12	323.80	-	41.76	51.01	60.29	60.29	81.53	81.53	-
350	14	355.60	6.35	7.92	9.53	9.53	11.13	12.70	-	-
400	16	406.40	6.35	7.92	9.53	9.53	12.70	12.70	-	-
450	18	457.00	6.35	7.92	11.13	9.53	14.27	12.70	-	-
500	20	508.00	6.35	9.53	12.70	9.53	15.09	12.70	-	-
			78.56	117.15	155.13	117.15	183.43	155.13	-	-



## ERW PIPES FOR WATER & SEWAGE CONFORMING TO IS:3589 & WATER WELL CASING CONFORMING TO IS:4270

NB	OD	CONVENTIONAL MASS PER UNIT LENGTH (Kg/m)																								
		WALL THICKNESS (mm)																								
mm	mm	3.20	3.60	4.00	4.30	4.65	4.85	5.00	5.20	5.40	5.60	6.00	6.35	6.40	7.00	7.10	8.00	9.50	10.00	10.30	10.50	11.10	11.50	12.00	12.50	12.70
100	114.30	-	-	-	-	-	-	13.48	-	14.50	-	16.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
125	141.30	-	-	-	-	-	-	16.81	-	18.10	-	20.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
150	168.30	13.03	14.62	16.21	17.39	18.77	19.55	20.13	20.91	21.69	-	24.01	25.36	25.55	27.84	28.22	-	-	-	-	-	-	-	-	-	
175	193.70	-	16.88	18.71	20.08	21.68	22.59	23.27	24.17	25.07	-	27.77	29.34	29.56	32.23	32.67	36.63	-	-	-	-	-	-	-	-	
200	219.10	-	19.13	21.22	22.78	24.59	25.62	26.40	27.43	28.46	29.48	31.53	33.31	33.57	36.61	37.12	41.65	49.10	51.56	53.03	54.01	56.94	58.87	61.29	63.68	64.64
225	244.50	-	-	23.72	25.47	27.50	28.66	29.53	30.69	31.84	32.99	35.29	37.29	37.58	41.00	41.57	46.66	55.05	57.83	59.49	60.59	63.89	66.08	68.80	71.51	72.60
250	273.10	-	23.93	26.54	28.50	30.78	32.08	33.06	34.35	35.65	36.94	39.52	41.77	42.09	45.93	46.57	52.30	61.75	64.88	66.75	68.00	71.72	74.19	77.26	80.33	81.55
300	323.90	-	-	31.55	33.89	36.61	38.16	39.32	40.87	42.41	43.96	47.04	49.73	50.11	54.70	55.47	62.32	73.65	77.41	79.65	81.15	85.62	88.59	92.30	95.99	97.46
350	355.60	-	-	34.68	37.25	40.24	41.95	43.23	44.93	46.63	48.33	51.73	54.69	55.11	60.18	61.02	68.57	81.08	85.22	87.71	89.36	94.30	97.58	101.68	105.76	107.39
400	406.40	-	-	-	46.07	48.03	49.49	51.45	53.40	55.35	59.24	62.64	63.13	68.94	69.91	78.60	92.98	97.75	100.61	102.51	108.20	111.99	116.71	121.42	123.30	
450	457.00	-	-	-	51.87	54.08	55.73	57.94	60.14	62.34	66.73	70.57	71.12	77.68	78.77	88.58	104.84	10.23	13.46	15.61	22.05	26.34	131.68	137.02	139.15	
500	508.00	-	-	-	57.72	60.18	62.02	64.48	66.93	69.38	74.28	78.55	79.16	86.48	87.70	98.64	16.78	22.81	26.41	128.82	136.01	140.80	146.78	152.74	155.12	

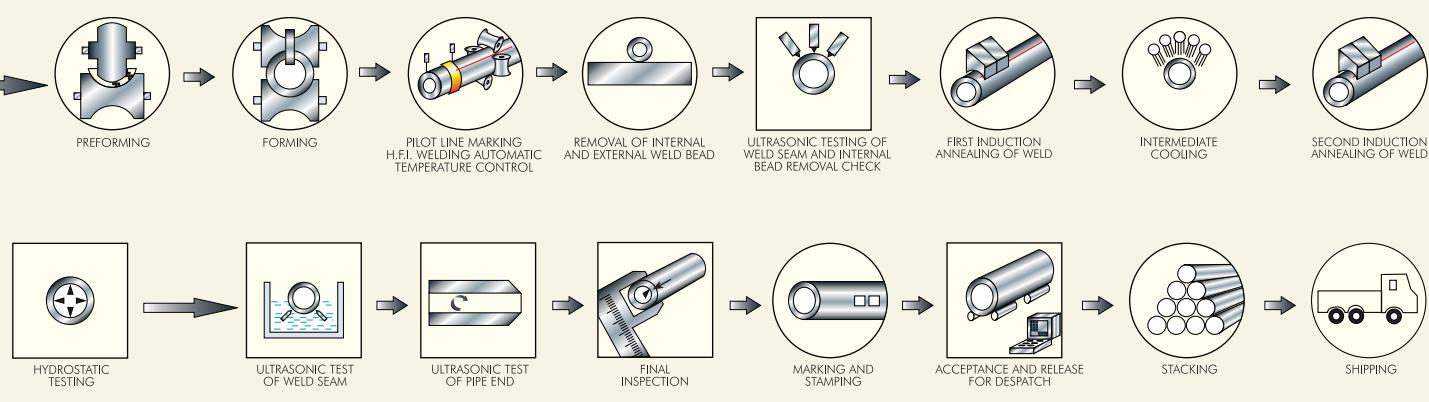
NOTE: (I) IS:4270 covers Pipe size 100mm to 500mm NB & IS:3589 covers Pipe size 168.30mm O.D. to 508.00mm O.D.

(II) IS:4270 covers wall thickness upto 12 mm.

(III) Other thickness may be supplied as per agreement.

(IV) Max. Hydro Test Pressure IS:3589 - 5 MPa, IS:4270 - 7 MPa.

## / ELECTRIC RESISTANCE WELDED BLACK AND GALVANIZED PIPES/TUBES



## CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES

Spec-ification	Grade	CHEMICAL COMPOSITION % (Max.)										MECHANICAL PROPERTIES										Impact Energy J (Ft/lb) min.	
		C	Mn	P	S	Si	V	Nb	Ti	C.E.		YIELD STRENGTH				TENSILE STRENGTH				% Elongation			
										PCM	IIW	Min.	Max.	Min.	Max.	PSI	MPa	PSI	MPa	PSI	MPa	e	
API 5L	L210 or A	0.22	0.90	0.030	0.030	-	-	-	-	-	-	30500	210	-	-	48600	335	-	-	U.S Customary Unit e = 625,000 A <sup>0.2</sup> /U <sup>0.9</sup>	-	Legend : e = specified min. elongation A= Cross sectional area U= Specified min. UTS	
	L245 or B	0.26	1.20	0.030	0.030	-	-	-	-	-	-	35500	245	-	-	60200	415	-	-	S.I Unit e = 1940 A <sup>0.2</sup> /U <sup>0.9</sup>	-		
	L290 or X-42	0.26	1.30	0.030	0.030	-	-	-	-	-	-	42100	290	-	-	60200	415	-	-	-	-		
	L320 or X-46	0.26	1.40	0.030	0.030	-	-	-	-	-	-	46400	320	-	-	63100	435	-	-	-	-		
	L360 or X-52	0.26	1.40	0.030	0.030	-	-	-	-	-	-	52200	360	-	-	66700	460	-	-	-	-		
	L390 or X-56	0.26	1.40	0.030	0.030	-	-	-	-	-	-	56600	390	-	-	71100	490	-	-	-	-		
	L415 or X-60	0.26	1.40	0.030	0.030	-	-	-	-	-	-	60200	415	-	-	75400	520	-	-	-	-		
	L450 or X-65	0.26	1.45	0.030	0.030	-	-	-	-	-	-	65300	450	-	-	77600	535	-	-	-	-		
	L485 or X-70	0.26	1.65	0.030	0.030	-	-	-	-	-	-	70300	485	-	-	82700	570	-	-	-	-		
API 5L	L245M or BM	0.22	1.20	0.025	0.015	0.45	0.050	0.050	0.040	0.25	0.43	35500	245	65300	450	60200	415	95000	655	27 (20)	-	27 (20)	
	L290M or X42M	0.22	1.30	0.025	0.015	0.45	0.050	0.050	0.040	0.25	0.43	42100	290	71800	495	60200	415	95000	655	27 (20)	-		
	L320M or X46M	0.22	1.30	0.025	0.015	0.45	0.050	0.050	0.040	0.25	0.43	46400	320	76100	525	63100	435	95000	655	27 (20)	-		
	L360M or X52M	0.22	1.40	0.025	0.015	0.45	-	-	-	0.25	0.43	52200	360	76900	530	66700	460	110200	760	27 (20)	-		
	L390M or X56M	0.22	1.40	0.025	0.015	0.45	-	-	-	0.25	0.43	56600	390	79000	545	71100	490	110200	760	27 (20)	-		
	L415M or X60M	0.12	1.60	0.025	0.015	0.45	-	-	-	0.25	0.43	60200	415	81900	565	75400	520	110200	760	27 (20)	-		
	L450M or X65M	0.12	1.60	0.025	0.015	0.45	-	-	-	0.25	0.43	65300	450	87000	600	77600	535	110200	760	27 (20)	-		
	L485M or X70M	0.12	1.70	0.025	0.015	0.45	-	-	-	0.25	0.43	70300	485	92100	635	82700	570	110200	760	27 (20)	-		
API 5CT	H 40	-	-	0.030	0.030	-	-	-	-	-	-	40000	276	80000	552	60000	414	-	-	e = 625,000 A <sup>0.2</sup> /U <sup>0.9</sup>		20L/16T 27L/20T L= long. T= Trans.	
	J-55	-	-	0.030	0.030	-	-	-	-	-	-	55000	379	80000	552	75000	517	-	-				
ASTM	A	0.25	0.95	0.050	0.045	-	0.08	-	-	-	-	30000	205	-	-	48000	330	-	-	e = 625,000 A <sup>0.2</sup> /U <sup>0.9</sup>			
A-53	B	0.30	1.20	0.050	0.045	-	0.08	-	-	-	-	35000	240	-	-	60000	415	-	-				
IS:1161	YST-210	0.12	0.60	0.040	0.040	-	-	-	-	-	-	30,500	210	-	-	48,000	330	-	-	G.L.= 5.65/Area 20			
	YST-240	0.16	1.20	0.040	0.040	-	-	-	-	-	-	35,000	240	-	-	59,500	410	-	-	17			
	YST-310	0.25	1.30	0.040	0.040	-	-	-	-	-	0.45	45,000	310	-	-	64,500	450	-	-	14			
	YST-355	0.25	1.50	0.040	0.040	-	-	-	-	-	0.45	51,500	355	-	-	71,100	490	-	-	10 G.L.= 5.65/Area			
IS:3589	Fe 330	0.16	1.20	0.040	0.040	-	-	-	-	-	-	195	-	-	-	330	-	-	-	20			
	Fe 410	0.20	1.30	0.040	0.040	-	-	-	-	-	0.45	-	235	-	-	-	410	-	-	-	18		
	Fe 450	0.25	1.20	0.040	0.040	-	-	-	-	-	0.45	-	275	-	-	-	450	-	-	-	15		
IS:4270	Fe 410	-	-	0.040	0.040	-	-	-	-	-	-	235	-	-	-	410	-	-	-	15	G.L.= 5.65/Area	Hardness= 230 HV max.	
	Fe 450	-	-	0.040	0.040	-	-	-	-	-	-	275	-	-	-	450	-	-	-	13			

NOTE : Refer current edition of Relevant specification for Dimensions and Properties data

\* Specifications are subject to change without any prior notice

A = Specimen cross-sectional area

U = Specified Min. Tensile Strength

## TOLERANCE ON OUTSIDE DIAMETER, WALL THICKNESS, WEIGHT AND LENGTH OF PIPE

SPEC.	OUT SIDE DIAMETER		WALL THICKNESS	WEIGHT	LENGTH							
	PIPE BODY	PIPE END			NOMINAL ft mtr.	Avg. Min. ft mtr.	MINIMUM ft	MAXIMUM ft	mtr.	mtr.		
API 5L IS/ISO: 3183	< 2 3/8"(60.3 mm) OD : +0.40mm, -0.80mm ≥ 2 3/8" (60.3 mm) OD to ≤ 24" (610 mm) : ± 0.0075 D (but max. of ± 1.6 mm)	≤ 6 5/8" (168.3 mm) : + 1.60 mm, - 0.40mm > 6 5/8" (168.3 mm) to ≤ 24" (610 mm) : ± 0.005 D (but max. of ± 1.6 mm)	≤ 5.0 mm WT : ± 0.5 mm > 5.0 mm WT to < 15.0 mm WT: ± 0.1t ≥ 15.0 mm WT : ± 1.5 mm	Single length of pipe + 10%, - 3.5% Carloads > 20 Ton :- 1.75%	20 40	6.0 12.0	17.5 35.0	5.33 10.67	9 14	2.74 4.27	22.5 45.0	6.86 13.72
API - 5CT	4 - 1/2 and larger = +1.0% -.5% of OD	5 and larger = + 1.0% – 0.016	-12.50%	Single length of pipe +6.5%,-3.5% Car loades:- for min 40,000 lb or more - 1.75%	Range-1 ft/mtr. 16/4.88 min.	Range-2 ft/mtr. 25/7.62 min.	Range-3 ft/mtr. 34/10.36 min.					
ASTM- A-53	Pipe 2 NPS and over =±1.0%	-	At any point - 12.5% (Max) Tm =Tn X 0.875 Tn = Nominal w.t Tm = Minimum w.t	± 10%	20 40	6.0 12.0	- 35	- 10.67	16 22	4.88 6.71	22 -	6.71 -
IS: 3589	Upto 508 mm OD = ± 0.75%	-	± 10%	-	- -	6.0 12.0	- -	- -	- -	4.00 7.00	- -	7.0 14.0
IS: 4270	± 1.0%	-	upto 406.4 mm OD = + 15% - 12.5% over 406.4 mm OD =+15% -10%	+ 10% - 8%	- -	6.0 -	- -	- -	- -	4.0 -	- -	7.0 -
IS:1161	Upto 48.3mm O.D.= +0.4mm,-0.80mm Over 48.3mm = ± 1.0%	N.A	±10%	Carload 10 MT : ± 7.5%, Single Tube : ± 10%,	-	6.0	-	-	-	4.0	-	7.0

## Quality

We never compromise

Quality is the hallmark of D. P. Jindal Group. Strict adherence to the policy of "No Compromise with Quality" is demonstrated by its stringent control over procurement of raw material, process control, streamlined distribution network and fast delivery of finished products.

We are holding Quality Management System Certification of ISO 9001: 2008. Similarly, we hold Integrated

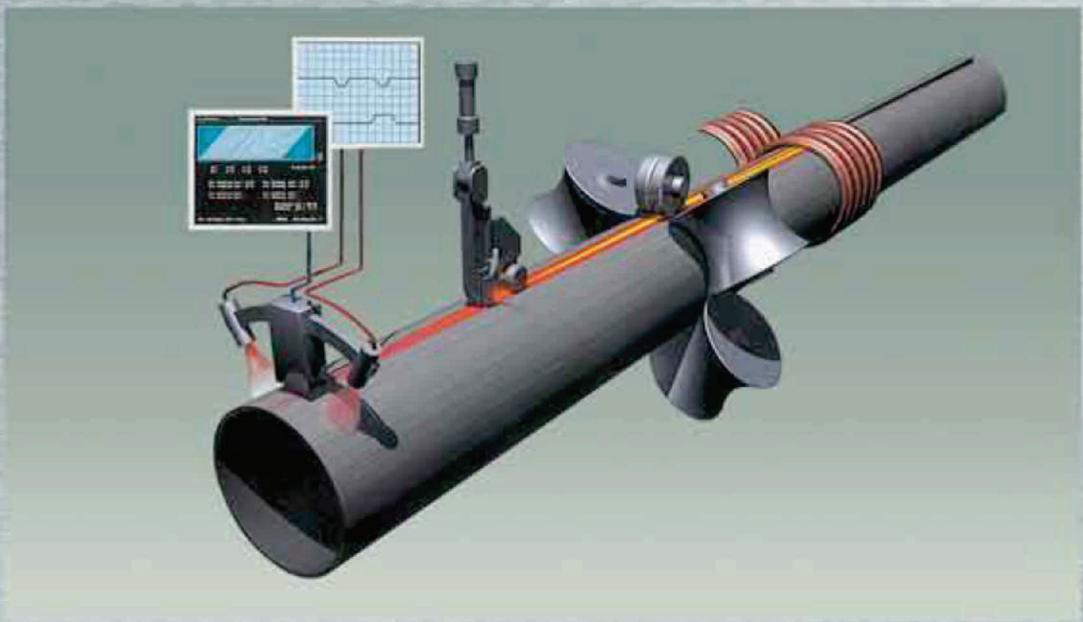
Management System Certification for Environmental Management System ISO 14001: 2004 and Occupational Health and Safety Management System OHSAS 18001: 2007.



Apart from ISI Certifications from Bureau of Indian Standards, we are also certified to use API Monogram for Casing and Line Pipes from American Petroleum Institute.

Our in-house R&D activities and adherence to the stringent Quality Standards using sophisticated inspection facilities which include Hydrostatic Testing, NDT facilities v.i.z Electro Magnetic Inspection, Ultrasonic, MPI & Eddy Current Testing and Laboratory Inspection/ Testing facilities like Spectrometer, Metallurgical Microscope, UTM, Impact Testing and Hardness Testers etc. have helped MSL to benchmark itself, amongst the best Pipe Manufacturers in the world.

Our manufacturing / inspection facilities and product quality have approval from all leading International Inspection agencies such as Lloyds, DNV, BVQI, EIL, TUV, PDIL, SGS, etc. Our products are in use by quality conscious sector of Indian Industry and our regular clientele includes customers like IOCL, ONGC, OIL, HPCL, BPCL, GAIL, BHEL, NTPC, SAIL, L&T, Adani, ESSAR, JSW, JSPL and Coal India.



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D.P. JINDAL GROUP



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