



JINDAL PIPES LIMITED

MANUFACTURERS & EXPORTERS OF:

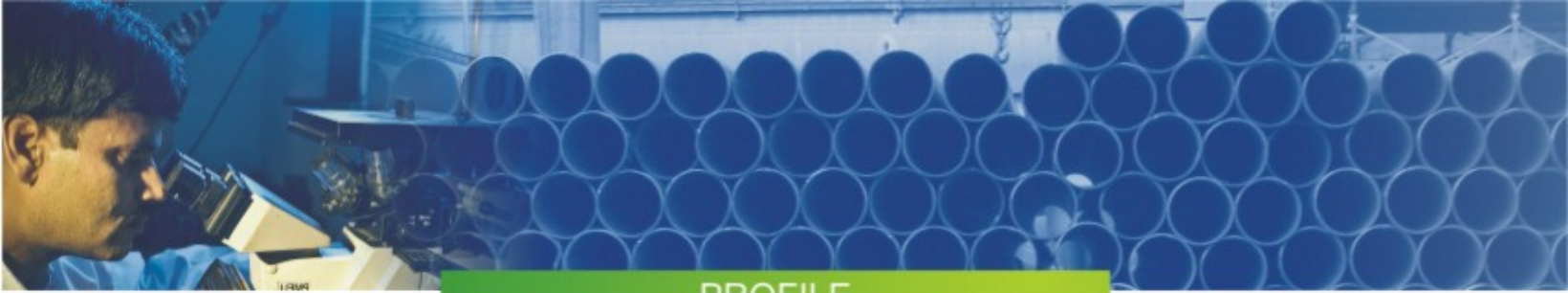
Mild Steel ERW Black & Galvanised Pipes/ Tubes
(From 15 mm to 350 mm)

JINDAL

D.P. JINDAL GROUP



THE QUALITY MANAGEMENT SYSTEM IS CERTIFIED - REGISTERED AS PER IN COMPLIANCE WITH ISO 9001



PROFILE

Jindal Pipes Limited, a pioneer with many innovative projects in the pipe industry, is synonymous with India's best ERW, galvanized and black steel pipes. Since inception in 1970, the company has brought drastic developments in pipe manufacturing through many innovative measures. Induction of sophisticated state-of-the-art technical know-how and highly motivated skilled work force have made possible for the company to augment its production capacity to 2,50,000 TPA. A wide range of products that comprises of 1/2" to 14" N.B. & 2.00mm to 10.00mm in wall thickness gives Jindal a commendable advantage in the market. Further, pipes upto 20" NB can be supplied from the sister concern- Maharashtra Seamless Limited.

Quality is the hallmark of Jindal. Strict adhere to the policy of 'No compromise on quality' is demonstrated in its stringent control over procurement of raw material, product process, streamlined distribution channels and fast delivery of finished products. ISO 9001:2008, API and BIS certifications stand as unequivocal testimony to Jindal's quality.

Jindal pipe has been constantly executing need based and demanding orders for pipes to meet the requirements of sectors like: Agriculture, Oil, Public Health, Housing, Irrigation, Engineering etc.

QUALITY POLICY

Consistent with the Group purpose, we are committed to create value for all our stakeholders by continually improving the effectiveness of Quality System and Processes through innovation, involving all our employees.

We shall constantly strive to improve the quality of life of the communities it serves through excellence in all facets of its activities. Our objectives shall be to:

- A) Produce and deliver products as per customer expectations, conforming to National / International Standards.
- B) Enhance the knowledge and skills of Employees for effective implementation of Quality Management System.

Rev. No. 3: 28.9.07

Raghav Jindal
(Managing Director)

QUALITY CREDENTIALS

JINDAL's idea of total quality is demonstrated in its stringent controls on raw materials, production process and on the speed with which the product reaches the customer. It's 'No compromises on quality', policy has brought it an ISO 9001, API and BIS certifications.

The Jindal Pipes Ltd. has accreditation of API Q1 system and has been awarded ISO 9001, on quality assurance. In addition to these, our products have the approval of international inspection agencies, such as Llyods, DNV, BVIS, EIL, PDIL, SGS etc.

Jindal Pipes Ltd. has in-house laboratory to undertake various testing and inspections during various stages of manufacturing.



INSPECTION AGENCIES

TPL
DGS&D
NTPC
EIL

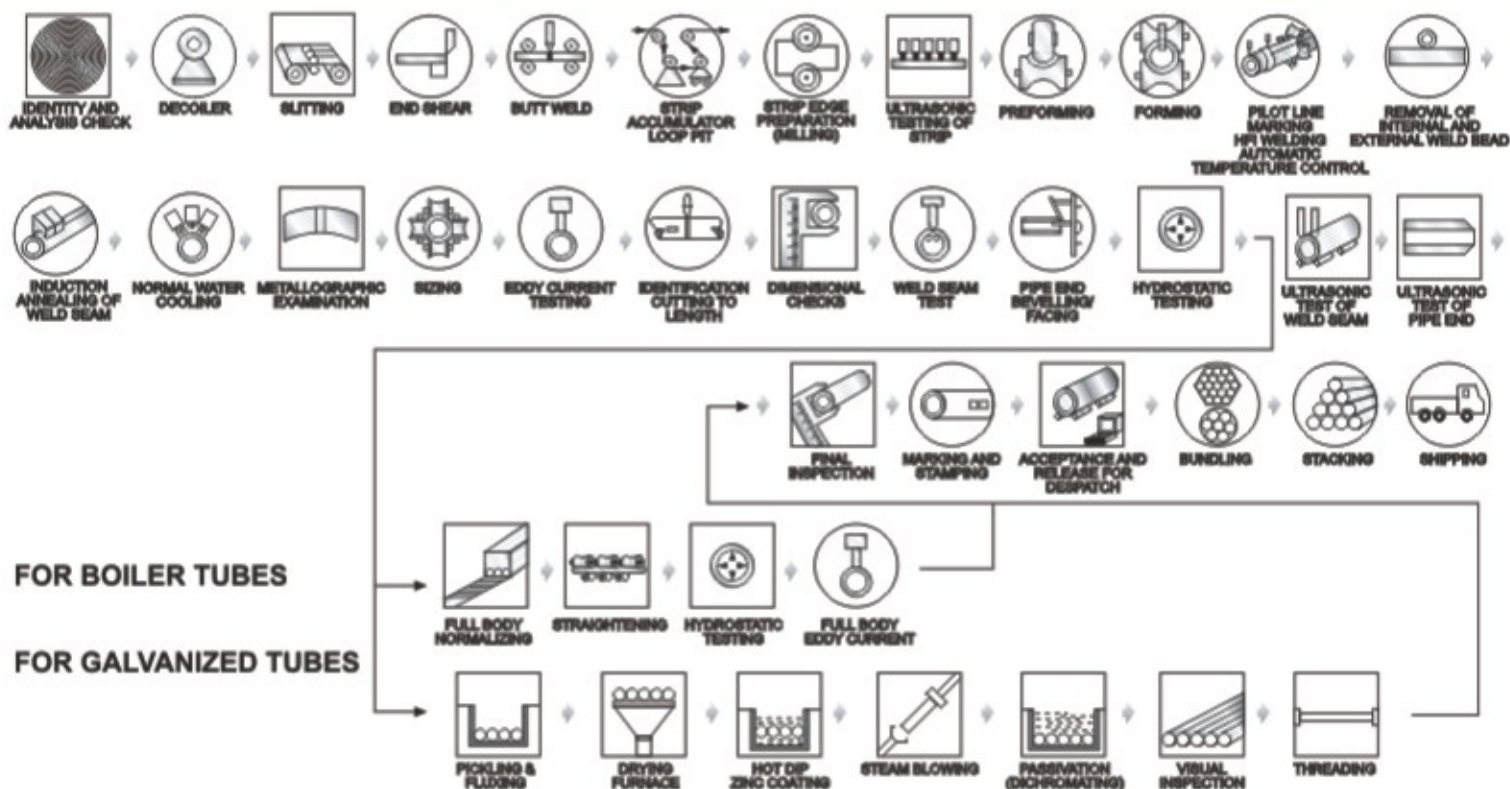
SGS
RITES
DNV

HMPL
INTERTACT
ICS

BVIS
QSS
TUV SUD
TUV NORD IRS

Oil & Gas Sector	API : 5L IS : 1978, 1979
Automotive Industry	BS : 6323 (Pt-V) IS : 3601, 3074
Hydrocarbon & Process Industry	ASTM : A-53 BS : 3603 IS : 6286
Boiler, Heat Exchanger, Superheater, Air Heater & Condenser	ASTM : A-178, A-214, A-333, A-334 BS : 3059 (P-I & P-II), 6232 (Pt-V) IS : 1914 (Pt-IV), 2416 (Pt-IV), 11714 (Pt-III)
Railways	IS : 1239 (Pt-I), 1161 RDSO : ETI/ OHE/ 11
Mechanical, Structural & General Engineering	IS : 1161, 3601, 4923 BS : 6323 (Pt-V)
Water, Gas & Sewage	IS : 3589, 1239 (Pt-I) BS : 1387 DIN : 2440, 2441 ISO : 65
Water Well	IS : 4270

MANUFACTURING AND TESTING FLOW DIAGRAM OF HIGH FREQUENCY INDUCTION WELDED / ELECTRIC RESISTANCE WELDED BLACK AND GALVANIZED PIPES / TUBES



ERW STEEL TUBES (BLACK & GALVANIZED) CONFORMING TO IS:1239 (Pt-1) / BS:1387 & STRUCTURAL TUBES CONFORMING TO IS:1161



SERIES		LIGHT						MEDIUM					HEAVY				
NOMINAL BORE		O.D.	OUTSIDE DIA.		WALL THICK.	WEIGHT		OUTSIDE DIA.		WALL THICK.	WEIGHT		OUTSIDE DIA.		WALL THICK.	WEIGHT	
INCH	mm	mm	(MIN.) mm	(MAX.) mm	mm	P/E Kg/m	S/S Kg/m	(MIN.) mm	(MAX.) mm	mm	P/E Kg/m	S/S Kg/m	(MIN.) mm	(MAX.) mm	mm	P/E Kg/m	S/S Kg/m
1/2	15	21.3	21.0	21.4	2.0	0.947	0.956	21.0	21.8	2.6	1.21	1.22	21.0	21.8	3.2	1.44	1.45
3/4	20	26.9	26.4	26.9	2.3	1.38	1.39	26.5	27.3	2.6	1.56	1.57	26.5	27.3	3.2	1.87	1.88
1	25	33.7	33.2	33.8	2.6	1.98	2.00	33.3	34.2	3.2	2.41	2.43	33.3	34.2	4.0	2.93	2.95
1-1/4	32	42.2	41.9	42.5	2.6	2.54	2.57	42.0	42.9	3.2	3.10	3.13	42.0	42.9	4.0	3.79	3.82
1-1/2	40	48.3	47.8	48.4	2.9	3.23	3.27	47.9	48.8	3.2	3.56	3.60	47.9	48.8	4.0	4.37	4.41
2	50	60.3	59.6	60.2	2.9	4.08	4.15	59.7	60.8	3.6	5.03	5.10	59.7	60.8	4.5	6.19	6.26
2-1/2	65	76.1	75.2	76.0	3.2	5.71	5.83	75.3	76.6	3.6	6.42	6.54	75.3	76.6	4.5	7.93	8.05
3	80	88.9	87.9	88.7	3.2	6.72	6.89	88.0	89.5	4.0	8.36	8.53	88.0	89.5	4.8	9.90	10.10
4	100	114.3	113.0	113.9	3.6	9.75	10.00	113.1	115.0	4.5	12.20	12.50	113.1	115.0	5.4	14.50	14.80
5	125	139.7	-	-	4.5	15.00	-	135.5	140.8	4.8	15.90	16.40	135.5	140.8	5.4	17.90	18.40
6	150	165.1	-	-	4.5	17.80	-	163.9	166.5	4.8	18.90	19.50	163.9	166.5	5.4	21.30	21.90
6	150	168.3	-	-	4.5	18.20	-	-	-	4.8	19.40	-	-	-	H1-5.4	21.70	-
6	150	168.3	-	-	-	-	-	-	-	-	-	-	-	-	H2-6.3	25.20	-
7	175	193.7	-	-	4.8	22.40	-	-	-	5.4	25.10	-	-	-	5.9	27.30	-
8	200	219.1	-	-	4.8	25.40	-	-	-	5.6	29.50	-	-	-	5.9	31.00	-
10	250	273.0	-	-	-	-	-	-	-	-	-	-	-	-	5.9	38.90	-
12	300	323.9	-	-	-	-	-	-	-	-	-	-	-	-	6.3	49.30	-
14	350	355.6	-	-	-	-	-	-	-	-	-	-	-	-	8.0	68.60	-

NOTE: (I) IS:1239 & BS:1387 cover sizes upto 100 mm NB all series and 125 & 150 mm NB medium & heavy series, plain end & screwed and socketed ends.
 (II) IS:1161 covers all sizes Plain End only.
 (III) IS:1161 O.D. Tolerance will be as per dimension tolerance table, Above table min/max O.D. applicable for IS:1239 only.
 (IV) Hydro test Pressure - 5 MPa (IS:1161 Hydro Test not required.)

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

SIZE		CONVENTIONAL MASS PER UNIT LENGTH (Kg/m)																	
NB	OD	WALL THICKNESS (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
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
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
300	323.90	-	-	31.55	33.89	36.61	38.16	39.32	40.67	42.41	43.96	47.04	49.73	50.11	54.70	55.47	62.32	73.65	77.41
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

NOTE: (I) IS:4270 covers Pipe size 100 mm to 350 mm NB & IS:3589 covers Pipe size 168.3 mm OD to 355.6 mm OD.
 (II) IS:4270 covers Wall Thickness upto 10 mm.
 (III) Other thickness may be supplied as per agreement.
 (IV) Max. Hydro Test Pressure IS:3589 - 5 MPa, IS:4270 - 7 MPa.



ERW LINE PIPES CONFORMING TO API 5L, IS:1978, IS:1979 AND ASTM A-53

LICENSE NO 9L-019

OD	WALL THICKNESS		WEIGHT (P/E)		MINIMUM HYDRO TEST PRESSURE (STD) X 100 KPa									
	INCH	mm	Lb/Ft	Kg/m	A	B	X-42	X-46	X-52	X-56	X-60	X-65	X-70	
3-1/2	88.9	0.125	3.20	4.51	6.76	91	106	125	138	156	168	179	194	205
	88.9	0.141	3.60	5.06	7.57	102	119	141	156	175	190	202	205	205
	88.9	0.156	4.00	5.58	8.37	113	132	157	173	194	205	205	205	205
	88.9	0.172	4.40	6.12	9.17	125	146	172	190	205	205	205	205	205
	88.9	0.188	4.80	6.66	9.95	136	159	188	205	205	205	205	205	205
88.9	0.216	5.50	7.58	11.31	156	170	205	205	205	205	205	205	205	



LICENSE NO. SL-0138

ERW LINE PIPES CONFORMING TO API 5L,
IS:1978, IS:1979 AND ASTM A-53



OD	WALL THICKNESS		WEIGHT (P/E)		MINIMUM HYDRO TEST PRESSURE (STD) X 100 KPa									
	INCH	mm	INCH	mm	Lb/Ft	Kg/m.	A	B	X-42	X-46	X-52	X-56	X-60	X-65
4-1/2	114.3	0.125	3.20	5.85	8.77	71	82	97	108	121	131	139	151	163
	114.3	0.141	3.60	6.57	9.83	79	93	110	121	136	147	157	170	183
	114.3	0.156	4.00	7.24	10.88	88	103	122	134	151	164	174	189	204
	114.3	0.172	4.40	7.96	11.92	97	113	134	148	166	180	192	205	205
	114.3	0.188	4.80	8.67	12.96	106	123	146	161	181	197	205	205	205
	114.3	0.203	5.20	9.32	13.99	115	134	158	175	197	205	205	205	205
	114.3	0.219	5.60	10.02	15.01	123	144	170	188	205	205	205	205	205
	114.3	0.237	6.00	10.80	16.02	132	154	183	202	205	205	205	205	205
5-9/16	141.3	0.125	3.20	7.27	10.90	57	67	79	87	98	106	113	122	132
	141.3	0.156	4.00	9.02	13.54	71	83	99	109	122	132	141	153	165
	141.3	0.188	4.80	10.80	16.16	86	100	118	130	147	159	169	183	198
	141.3	0.219	5.60	12.51	18.74	100	117	138	152	171	185	197	205	205
	141.3	0.258	6.60	14.63	21.92	117	137	163	179	202	205	205	205	205
6-5/8	168.3	0.125	3.20	8.69	13.03	48	56	63	91	103	111	118	128	138
	168.3	0.141	3.60	9.77	14.62	54	63	93	103	116	125	133	144	156
	168.3	0.156	4.00	10.79	16.21	60	70	103	114	128	139	148	160	173
	168.3	0.172	4.40	11.87	17.78	66	77	114	125	141	153	163	176	190
	168.3	0.188	4.80	12.94	19.35	72	84	124	137	154	167	178	193	205
	168.3	0.203	5.20	13.94	20.91	78	91	134	148	167	181	192	205	205
	168.3	0.219	5.60	15.00	22.47	84	98	145	160	180	195	205	205	205
	168.3	0.250	6.40	17.04	25.55	96	112	165	183	205	205	205	205	205
8-5/8	219.1	0.156	4.00	14.12	21.22	46	54	79	88	99	107	114	123	133
	219.1	0.188	4.80	16.96	25.37	55	64	95	105	118	128	136	148	159
	219.1	0.203	5.20	18.28	27.43	60	70	103	114	128	139	148	160	173
	219.1	0.219	5.60	19.68	29.48	64	75	111	123	138	150	159	173	186
	219.1	0.250	6.40	22.38	33.57	74	86	127	140	158	171	182	197	205
	219.1	0.277	7.00	24.72	36.61	81	94	139	153	173	187	199	205	205
	219.1	0.312	7.90	27.73	41.14	91	106	157	173	195	205	205	205	205
	219.1	0.322	8.20	28.58	42.65	94	110	163	180	202	205	205	205	205
	219.1	0.344	8.70	30.45	45.14	100	117	173	191	205	205	205	205	205
10-3/4	273.1	0.156	4.00	17.67	26.54	37	43	72	80	90	97	103	112	121
	273.1	0.188	4.80	21.23	31.76	44	52	87	96	108	117	124	134	145
	273.1	0.203	5.20	22.89	34.35	48	56	94	104	117	126	134	146	157
	273.1	0.219	5.60	24.65	36.94	52	60	101	112	125	136	145	157	169
	273.1	0.250	6.40	28.06	42.09	59	69	116	127	143	155	165	179	193
	273.1	0.279	7.10	31.23	46.57	66	76	128	141	159	172	183	199	205
	273.1	0.307	7.80	34.27	51.03	72	84	141	155	175	189	201	205	205
	273.1	0.344	8.70	38.27	56.72	80	94	157	173	195	205	205	205	205
12-3/4	323.9	0.172	4.40	23.13	34.67	34	40	67	74	83	90	96	104	112
	323.9	0.188	4.80	25.25	37.77	37	44	73	81	91	98	105	113	122
	323.9	0.203	5.20	27.23	40.87	40	47	79	87	98	106	113	123	132
	323.9	0.219	5.60	29.34	43.96	44	51	85	94	106	115	122	132	143
	323.9	0.250	6.40	33.41	50.11	50	58	97	107	121	131	139	151	163
	323.9	0.281	7.10	37.46	55.47	55	64	108	119	134	145	155	168	181
	323.9	0.312	7.90	41.48	61.56	61	72	120	133	149	162	172	187	201
	323.9	0.330	8.40	43.81	65.35	65	76	128	141	159	172	183	198	205
	323.9	0.344	8.70	45.62	67.62	68	79	132	146	164	178	189	205	205
14	355.6	0.188	4.80	27.76	41.52	34	40	67	73	83	89	95	103	111
	355.6	0.203	5.20	29.94	44.93	37	43	72	80	89	97	103	112	121
	355.6	0.219	5.60	32.26	48.33	40	46	78	86	96	104	111	120	130
	355.6	0.250	6.40	36.75	55.11	45	53	89	98	110	119	127	138	148
	355.6	0.281	7.10	41.21	61.02	50	59	98	109	122	132	141	153	165
	355.6	0.312	7.90	45.65	67.74	56	65	110	121	136	147	157	170	183
	355.6	0.344	8.70	50.22	74.42	62	72	121	133	150	162	173	187	202
355.6	0.375	9.50	54.62	81.08	67	79	132	145	163	177	188	204	205	

NOTE: API 5L Gr. A, IS:1978 Yst-210, ASTM A-53 Gr. A are equivalent. API 5L Gr. B, IS:1978 Yst-240, ASTM A-53 Gr. B are equivalent. API 5L Gr. X-42, X-46, X-52, X-60, X-65, X-70 & IS:1979 Gr. Yst-290, 320, 360, 410, 450, 480 are respectively equivalent.

ERW BOILER, SUPER HEATER, HEAT EXCHANGE, CONDENSER & AIR HEATER TUBES & PIPES



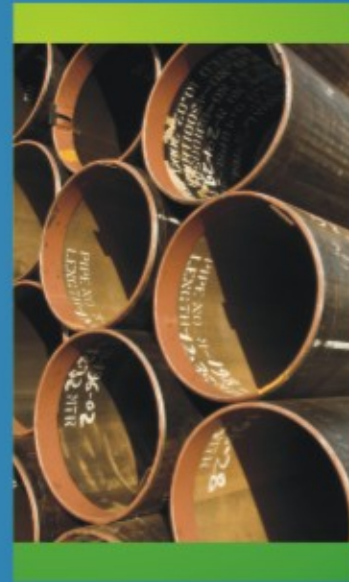
Conforming to BS 3059(Pt-I & II), BS 6323 (Pt-V), ASTM, A-178, A-214, A-333, A-334, IS:1914 (Pt-IV), IS 2416 (Pt-IV), IS:11714 (Pt-III).

Out side Diameter (mm)	Conventional Mass per Unit length in kg/m for a Tube Thickness in mm of:																									
	2.03	2.34	2.64	2.95	3.25	3.38	3.56	3.66	3.68	3.91	4.06	4.50	5.16	5.49	5.74	6.02	6.35	6.55	7.04	7.11	7.80	7.92	8.18	8.38	9.27	9.52
33.4 / 33.7	1.59	1.81	2.02	2.24	2.44	2.53	-	2.71	-	-	2.97	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38.0	1.80	2.06	2.30	2.55	2.79	-	-	3.10	-	-	3.40	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42.2 / 42.4	-	2.31	2.59	2.87	3.14	-	3.41	3.50	-	-	3.84	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44.5	-	2.43	2.73	3.02	3.31	-	-	3.69	-	-	4.05	4.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48.3	-	2.65	2.97	3.30	3.61	-	-	4.03	4.05	-	4.43	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50.8	-	2.80	3.14	3.48	3.81	-	-	4.25	-	-	4.68	5.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57.2	-	-	3.55	3.95	4.32	-	-	4.83	-	-	5.32	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60.3	-	-	3.75	4.17	4.57	-	-	5.11	-	5.44	5.63	6.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63.5	-	-	3.96	4.40	4.83	-	-	5.40	-	-	5.95	6.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73.0	-	-	-	-	-	-	-	-	-	-	-	8.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76.1	-	-	-	5.32	5.84	-	-	6.54	-	-	7.21	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88.9	-	-	-	-	6.86	-	-	7.69	-	-	8.49	9.37	-	11.29	-	-	-	-	-	-	-	-	-	-	-	-
101.6	-	-	-	-	-	-	-	8.84	-	-	9.77	10.80	-	-	13.57	-	-	-	-	-	-	-	-	-	-	-
114.3	-	-	-	-	-	-	-	-	-	-	11.04	12.20	-	-	-	16.07	-	-	-	-	-	-	-	-	-	-
127.0	-	-	-	-	-	-	-	-	-	-	-	13.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.77	-	-	-	-	-	-	-	-
168.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.26	-	-	-	-	-	-	-
219.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.31	-	36.81	-	-	-	42.55	-	-	-
273.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.75	-	-	-	51.01	-	-	-	60.29	-
323.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.71	-	-	-	-	-	-	65.18	-	73.78
355.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.69	-	-	-	-	67.90	-	-	-	81.25

NOTE: Leak Test - Hydro Test / NDT test as per specification requirements.

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

SPEC	OUT SIDE DIAMETER		WALL THICKNESS	WEIGHT	LENGTH							
	PIPE BODY	PIPE END			NOMINAL	Avg. (MIN)		MAXIMUM				
						ft	mtr	ft	mtr	ft	mtr	
API 5L	< 2 3/8" (60.3 mm)OD = +0.40 mm, -0.80 mm ≥ 2 3/8" (60.3 mm)OD ± 0.0075 D (but max. of 3.2 mm)	≤ 6 5/8" (168.3 mm) + 1.60 mm, -0.40 mm > 6 5/8" (168.3 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 ± 0.1 > 15.0 mm WT ± 1.5 mm	Single length of pipe + 10%, - 3.5% Carloads - 40,000 lb (18,144 Kg.) or more - 1.75%, less - 3.5%	20 40	6.0 12.0	17.5 35	5.33 10.7	9.0 14.0	2.74 4.27	23 45.0	6.86 13.72
IS:1978	60.3 and above ± 1%	≤ 273.1 mm OD = +1.60 mm - 0.40 mm 323.9 mm OD & larger pipe = +2.40 mm - 0.80 mm	< 73 mm OD = +20% -12.5% 88.9 mm OD = +18% -12.5% 101.6 mm to 457.2 mm OD = +15% -12.5%	Single length of pipe + 10%, - 3.5% Carloads - for min. 18,000 Kg - 1.75%	-	6.0 12.0	-	5.3 10.7	-	2.70 4.30	-	-
IS:1979	< 508.0mm OD ± 0.75%	≤ 273.1 mm OD pipe = + 1.60 mm - 0.40 mm 323.9 mm OD & larger pipe = +2.40 mm - 0.80 mm	≤ 457.0 mm OD pipe = +15.0% -12.5%	Single length of pipe + 10%, - 3.5%	-	6.0 12.0	-	5.3 10.7	-	2.70 4.30	-	-
IS:1239 & BS:1387	As per table	N.A.	Light - 8% + not limited Medium & Heavy - 10%, + not limited	Carload 10 MT Light ± 5%, M & H ± 7.5% Single Tube Light - 8% + 10% Med & Heavy ± 10%	-	6 12	-	-	-	4 7	-	7 10
IS:3589	Upto 508mm OD = ± 0.75%	N.A.	± 10%	Carload 10MT and above ± 7.5%	-	6.0 12.0	-	-	-	4.00 7.00	-	7.0 14.0
IS:4270	± 1.0%	-	Upto 406.4 mm OD = +15% - 12.5%	+ 10% - 8%	-	6.0	-	-	-	4.0	-	7.0
IS:1161	Upto 48.3 mm OD + 0.4 mm, - 0.8 mm Over 48.3 mm ± 1.0%	N.A.	-10%, + not limited	Carload 10 MT Light ± 5%, M & H ± 7.5% Single Tube Light - 8% + 10% Med & Heavy ± 10%	-	6	-	-	-	4	-	7
IS:4923	± 1% (± 0.5 mm min.)	N.A.	± 10% excluding weld Area	Carload 10 MT ± 7.5% Single Tube + 10% - 8%	-	6	-	-	-	4	-	11
IS:1914 Pt-IV	+ 0, -1%	N.A.	+ 10%, -5%	N.A.	Tolerance - Upto 9 mtr +3, -0 mm Above 9 mtr +6, -0 mm							
IS:2416 Pt-IV	± 0.75% (± 0.30 mm min.)	N.A.	+ 10%, -5%	N.A.	Tolerance - Upto 9 mtr +3, -0 mm Above 9 mtr +6, -0 mm							
IS:11714 Pt-III	As per table	N.A.	+ 18%, -8	+ 10%, -0	Tolerance - Below 50 mm OD + 3.2, -0 mm 50 mm OD & above + 4.8, -0 mm							
BS:3059 Pt-I	± 0.75% (± 0.30 mm min.)	N.A.	Upto 3.25 mm ± 10% Over 3.25 mm ± 7.5%	N.A.	Tolerance - Upto 6 mtr +6, -0 mm Above 6 mtr 1.5mm will increase for every 3 mtr increase of length (12mm max.)							
BS:3059 Pt-II	± 0.75% (± 0.30 mm min.)	N.A.	± 10% (excluding weld area)	N.A.	Tolerance - Upto 0.5mtr +2, -0mm 0.5 to 2mtr +3, -0mm ; 2 to 5mtr +5, -0mm ; 5 to 7mtr + 10, -0mm ; Above 7mtr. as agreed							
BS:6323 Pt-V	As per table	N.A.	Less than 3 mm + 10% 3 mm & above + 8%	N.A.	Tolerance - Upto 0.5mtr +2, -0mm 0.5 to 2mtr +3, -0mm ; 2 to 5mtr +5, -0mm ; 5 to 7mtr + 10, -0mm ; Above 7mtr. as agreed							
ASTM A-53	1-1/2 NPS & under = ± 0.4 mm 2" NPS and over = ± 1.0%	N.A.	At any point - 12.5% (max.) Tm = Tn x 0.875, Tn = Nominal wt, Tm = min. wt	± 10%	20 40	6.0 12.0	- 35	- 10.67	16 22	4.88 6.71	22 -	6.71 -
ASTM A178 & A214	± 0.15 to ± 0.38mm	N.A.	+ 18%, -0	+ 10%, -0	Tolerance - Under 50.8 mm OD +3, -0 mm 50.8 & above +5, -0 mm							
ASTM-A333 & A334	± 0.15 to ± 0.38mm	N.A.	+ 18%, -0	+ 10%, -0	20 40	6 12	- 35	- 10.67	16 22	4.88 6.71	22 -	6.71 -
IBR	-1%, +0	N.A.	-5%, +10%	N.A.	Tolerance - Upto 30 ft +3, -0 mm. Above 30 ft +6, -0 mm							
RDSO ET/VOHE/11	33.7 mm OD + 0.8, - 1.0 mm 38.0 mm OD + 0.32, - 0.2 mm 49.0 mm OD + 0.32, - 0.2 mm	28.4 (Std. ID) & 27.70 (Min. ID) 29.9 (Std. ID) & 29.58 (Min. ID) 40.9 (Std. ID) & 40.58 (Min. ID)	-0.31 mm, + not limited -0.35 mm, + not limited -0.35 mm, + not limited	N.A. N.A. N.A.	Tolerance - As agreed							



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JPL.CAT.01; Issue No.02; Rev. No.:0; Date 02.03.10

Note: Information provided in this catalogue is as per currently applicable specifications but since they are subject to changes, please refer relevant specification to know the current status.