

Nominal		OD	Schedule		Schedule		Schedule	
Pipe Size		Size	10		20		30	
Inch	DN	mm	Wall	Kg./Mtr	Wall	Kg./Mtr	Wall	Kg./Mtr
1/8	6	10.3						
1/4	8	13.7						
3/8	10	17.1						
1/2	15	21.3						
3/4	20	26.7						
1	25	33.4						
1-1/4	32	42.2						
1-1/2	40	48.3						
2	50	60.3						
2-1/2	65	73.0						
3	80	88.9						
3-1/4	90	101.6						
4	100	114.3						
5	125	141.3						
6	150	168.3						
8	200	219.1			6.35	33.31	7.04	36.81
10	250	273.0			6.35	41.75	7.80	51.01
12	300	323.9			6.35	49.71	8.38	65.18
14	350	355.6	6.35	54.69	7.92	67.90	9.53	81.25
16	400	406.4	6.35	62.64	7.92	77.83	9.53	93.17
18	450	457.2	6.35	70.60	7.92	87.75	11.13	122.43
20	500	508.0	6.35	78.55	9.53	111.02	12.70	155.12
22	550	558.8	6.35	86.50	9.53	129.01	12.70	171.01
24	600	609.6	6.35	94.46	9.53	140.88	14.27	209.50
26	650	660.4	7.92	127.43	12.70	202.85		
28	700	711.2	7.92	137.42	12.70	218.73	15.88	272.18
30	750	762.0	7.92	147.36	12.70	234.84	15.88	292.06
32	800	812.8	7.92	157.28	12.70	250.55	15.88	311.95
34	850	863.6	7.92	167.20	12.70	266.46	15.88	331.83
36	900	914.4	7.92	177.13	12.70	282.36	15.88	351.72

* Non schedule/ standard sizes which are not covered above can be provided on request.

* Due to limitations in plant capabilities certain sizes and thickness can't be manufactured by e

* All the above information provided is true to the best of our knowledge, incase you find any er

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Weight kg / Mtr = (OD - Wt) x (Wt x 0.02466)

OD = Outside Diameter

Wt = Wall Thickness

Wall = Wall Thickness in Millimeter

Kg/Mtr = Weight in Kg per Meter

DIMENSIONS & WEIGHT OF CARBON STEEL & ALLOY ST

Schedule		Schedule		Schedule		Schedule		Sche
Standard		40		Extra Stron (XS)		60		8
Wall	Kg./Mtr	Wall	Kg./Mtr	Wall	Kg./Mtr	Wall	Kg./Mtr	Wall
1.73	0.37	1.73	0.37	2.41	0.47			2.41
2.24	0.63	2.24	0.63	3.02	0.80			3.02
2.31	0.84	2.31	0.84	3.20	1.10			3.20
2.77	1.27	2.77	1.27	3.73	1.62			3.73
2.87	1.69	2.87	1.69	3.91	2.20			3.91
3.38	2.50	3.38	2.50	4.55	3.24			4.55
3.56	3.39	3.56	3.39	4.85	4.47			4.85
3.68	4.05	3.68	4.05	5.08	5.41			5.08
3.91	5.44	3.91	5.44	5.54	7.48			5.54
5.16	8.63	5.16	8.63	7.01	11.41			7.01
5.49	11.29	5.49	11.29	7.62	15.27			7.62
5.74	13.57	5.74	13.57	8.08	18.63			8.08
6.02	6.07	6.02	6.07	8.56	22.32			8.56
6.55	21.77	6.55	21.77	9.53	30.94			9.53
7.11	28.26	7.11	28.26	10.97	42.56			10.97
8.18	42.55	8.18	42.55	12.70	64.64	10.31	22.23	12.70
9.27	60.29	9.27	60.29	12.70	81.52	12.70	81.52	15.09
9.53	73.78	10.31	79.70	12.70	97.43	14.27	108.92	17.48
9.53	81.25	11.13	94.55	12.70	107.39	15.09	126.71	19.05
9.53	93.17	12.70	123.30	12.70	123.30	16.66	160.12	21.44
9.53	105.10	14.21	155.87	12.70	139.20	19.05	205.83	23.83
9.53	117.02	15.09	183.42	12.70	155.10	20.62	247.83	26.19
9.53	129.01			12.70	171.01	22.23	294.25	28.58
9.53	140.88	17.48	255.24	12.70	186.94	24.61	355.02	30.96
9.53	152.80			12.70	202.85			
9.53	164.80			12.70	218.73			
9.53	176.73			12.70	234.84			
9.53	188.66	17.48	342.70	12.70	250.55			
9.53	200.59	17.48	364.58	12.70	266.46			
9.53	212.52	19.05	420.56	12.70	282.38			

very manufacturer, thus please request for budgetary quote before adopting in design.

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'EEL PIPES

[illegible]

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Dimension & Weight of Black & Galvanized ERW / Welded Steel Tube Confirming to ISI - IS:1239(I)

Series / Class			LIGHT / A			MEDIUM / B			HEAVY / C		
Nominal Bore		OD	Wall	Weight		Wall	Weight		Wall	Weight	
Steel Tube		Size	Thk	P/E	S/S		P/E	S/S	mm	P/E	S/S
Inch	DN	mm	mm	Kg/m	Kg/m	mm	Kg/m	Kg/m	mm	Kg/m	Kg/m
1/2	15	21.3	2.0	0.947	0.956	2.6	1.21	1.22	3.2	1.44	1.45
3/4	20	26.7	2.3	1.38	1.39	2.6	1.56	1.57	3.2	1.87	1.88
1	25	33.4	2.6	1.98	2.00	3.2	2.41	2.43	4.0	2.93	2.95
1-1/4	32	42.2	2.6	2.54	2.57	3.2	3.10	3.13	4.0	3.79	3.82
1-1/2	40	48.3	2.9	3.23	3.27	3.2	3.56	3.60	4.0	4.37	4.41
2	50	60.3	2.9	4.08	4.15	3.6	5.03	5.10	4.5	6.19	6.26
2-1/2	65	73.0	3.2	5.71	5.83	3.6	6.42	6.54	4.5	7.93	8.05
3-1/4	90	101.6	3.2	6.72	6.89	4.0	8.36	8.53	4.8	9.90	10.10
4	100	114.3	3.6	9.75	10.00	4.5	12.20	12.50	5.4	14.50	14.80
5	125	141.3	4.5	15.00		4.8	15.90	16.40	5.4	17.90	18.40
6	150	168.3	4.5	17.80		4.8	18.90	19.50	5.4	21.30	21.90

* P/E : Plain End

* S/S : Screwed & Socketed

Dimension & Weight of Black & Galvanized ERW/ Welded Steel Tubes Confirming to ISi - IS: 1239 (I)

SIZE			WALL THICKNESS (mm)							
NB		OD	4.00	5.00	6.00	6.35	7.00	8.00	9.50	10.00
Inch	mm	mm	CONVENTIONAL MASS (Kg/m)							
7	175	193.7	18.71	23.27	27.77	29.34	32.23	36.63		
8	200	219.1	21.22	26.40	31.53	33.31	36.61	41.65	49.10	51.56
10	250	273.1	26.54	33.06	39.52	41.77	45.93	52.30	61.75	64.88
12	300	323.9	31.55	39.32	47.04	49.73	54.70	62.32	73.65	77.41
14	350	355.6	34.68	43.23	51.73	54.69	60.18	68.57	81.08	85.22
16	400	406.4		49.49	59.24	62.64	68.94	78.60	92.98	97.75
18	450	457.0		55.73	66.73	70.57	77.68	88.58	104.84	110.23
20	500	508.0		62.02	74.28	78.55	86.48	98.64	116.78	122.81
24	600	609.6		74.60	89.37	94.53	104.09	118.70	140.68	147.96

Carbon Steel / Alloy Steel / Seamless Tubes Dimensions

Gauge And Size											
OD	OD	18		16		14		12		10	
MM	INCH	SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG	SWG	BWG
.		1.22	1.25	1.83	1.116	2.03	2.11	2.64	2.77	3.25	3.40
Calculated Weight in Kg. per Meter											
6.85	1/4	0.154	0.157	0.190	0.191						
9.53	3/8	0.250	0.255	0.317	0.320	0.376	0.386				
12.70	1/2	0.345	0.383	0.445	0.450	0.534	0.551	0.655	0.878		
15.88	5/8	0.441	0.451	0.573	0.579	0.693	0.717	0.862	0.895		
19.05	3/4	0.537	0.549	0.700	0.708	0.852	0.882	1.038	1.112	1.288	1.306
25.40	1	0.728	0.746	0.958	0.966	1.170	1.212	1.482	1.646	1.775	1.844
31.75	1.1/4	0.919	0.940	1.011	1.225	1.488	1.542	1.895	1.979	2.284	2.376
38.10	1.112	0.110	1.136	1.466	1.483	1.806	1.873	2.309	2.413	2.793	2.909
44.46	1.314	1.300	1	1.721	1.742	2.124	2.203	2.722	2.847	3.301	3.441
50.80	2	1.492	1.527	1.976	2.000	2.442	2.534	3.135	3.280	3.810	3.974
57.14	2.1/4	1.683	1.723	2.231	2.258	2.759	2.864	3.549	3.714	4.319	4.508
83.50	2.112	1.874	1.919	2.481	2.517	3m7	3.195	3.962	4.149	4.829	5.039
76.20	3	2.256	2.310	2.998	3.034	3.713	3.855	4.789	5.016	5.847	6.104
Note : For Stainless steel weight will be 2% more than above											

ons & Weight

9		8	
SWG	BWG	SWG	BWG
3.88	3.78	4.08	4.20
1.389	1.147	1.417	1.538
1.962	2.003	2.008	2.195
2.535	2.595	2.595	2.853
3.108	3.184	3.184	3.511
3.882	3.m	3.m .	4.168
4.254	4.361	4.361	4.826
4.827	4.950	5.315	5.483
5.«11	5.540	5.952	8.142
6.548	6.717	7.223	7.458
e			

CHEMICAL COMPOSITION						
Spec.	Type	Grade	C		Mn	
			Min	Max	Min	Max
A-53	E&S					
	E&S					
A-106	S					
A179	S					
A192	S					
A210						
A333						
A213/ A335						
API SL						

N & MECHANICAL PROPERTIES OF POPULAR GRADE

P	S	Si		Cr		M
Max	Max	Min	Max	Min	Max	Min

				Mechanical Properties*	
lo	Cu	Ni	V	Yield Strength	Tensile Strength
Max	Max	Max	Max	Min/Mpa	Min/Mpa

CHEMICAL CO

Spec.	Type	Grade				
			C		Mn	
			Min	Max	Min	Max
IS-1161	E&S	YST-210	-	0.12	-	0.60
		YST-240	-	0.16	-	1.20
		YST-310	-	0.25	-	1.30
IS-1239 Pt-I	E&S	-	-	0.20	-	1.30
IS-3589	E&S	Fe-330	-	0.16	-	1.20
		Fe-410	-	0.20	-	1.30
		Fe-450	-	0.25	-	1.20
BS 3059	E	320	-	0.16	0.30	1.30
Part- I	S	320	-	0.16	0.30	0.70
BS 3059		360	-	0.17	0.40	0.80
Part- II	S					
DIN 2391	S	St - NBK 35 - GBK	-	0.17	0.40	-
		St - NBK 45 - GBK	-	0.21	0.40	-
		St - NBK 52 - GBK	-	0.22	-	1.60
ASTM A519	S	SAE 4130	0.28	0.33	0.40	0.60

* Mechanical Properties like elongation, hardness, Impact, Etc. have not been provided due to space constraints.

LEGENDS :

C : Carbon,
Mn: Manganese,
P: Phosphorus
S: Sulfur,

Si : Silicon,
Cr: Chromium,
Mo: Molybdenum,
Cu : Copper,

Ni : Nickel,
V: Vanadium,
N : Nitrogen,
Al : Aluminum

COMPOSITION & MECHANICAL PROPERTIES OF POPUL

Chemical Composition (%)						
P	S	Si		Cr		Mn
Max	Max	Min	Max	Min	Max	Min
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	-	-	-	-
0.040	0.040	-	0.35	-	-	-
0.040	0.040	0.10	0.35	-	-	-
0.035	0.035	0.10	0.35	-	-	-
0.025	0.025	-	0.35	-	-	-
0.025	0.025	-	0.35	-	-	-
0.025	0.025	-	0.55	-	-	-
0.040	0.040	0.15	0.35	0.80	1.10	0.15

space constraint, the same can be provided on request.

Nb /Cb: Niobium/ Columbium, SR: Stress Relieved
 Ti: Ttranium A/GBK: Annealed,
 Zr: Ziroonium, N / NBK: Normalized
 HR: Hot Rolled, MPa: Mega Pascal.

BAR GRADES

				Mechanical Properties*		
lo	Cu	Ni	V	Yield Strength	Tensile Strength	
Max	Max	Max	Max	Min/Mpa	Min/Mpa	
-	-	-	-	210	330	
-	-	-	-	240	410	
-	-	-	-	310	450	
-	-	-	-		320	
-	-	-	-	195	330	
-	-	-	-	235	410	
-	-	-	-	275	450	
-	-	-	-	195	320	480
-	-	-	-	195	320	480
-	-	-	-	235	360	500
-	-	-		235	340	470
					315	
-	-	-	-	255	440	570
					390	
				255	490	630
					490	
0.25	-	-	-	HR: 483 SR: 586 A : 379 N : 414	HR 621 SR 724 A : 517 N : 621	