

# T.T. SWASTIK

where Quality is the tradition

Galvanised & Black Steel Pipes - Tubes & C.R Strips



## SWASTIK Pipes Limited

AN ISO 9001:2008 COMPANY

» ERW MS Pipes

» Hollow Sections

» CR Strips

## ABOUT US



**Swastik Pipes Limited** is one of the leading manufacturer and exporter of T.T.Swastik Brand high quality Mild Steel ERW Black and Galvanized Pipes/ Tubes since 1973. Swastik Pipes is also manufacturing LINE PIPES as per API-5L since December 2005. Its advanced state-of-art manufacturing facilities with ISO 9001: 2008 and APIQ1 approvals and achieved National and International reputation and appreciation.

At present, it's highly sophisticated and technically competent plants are located at Bahadurgarh, Distt. Jhajjar, Haryana (Unit no. 1) with an Installed capacity of 1, 25,000 MT of Pipes and 1, 00,000 MT of CR Coils/Strips

and at Kotwan, Kosi Kalan, Distt. Mathura, Uttar Pradesh (Unit No. 2) with an installed capacity of 1, 00,000 MT. of Pipes. Swastik Pipes turnover is Crossing INR 6030 Million.

Swastik Pipes Limited is catering the demand of steel pipes and tubes of various heavy engineering industries in India and abroad. Steel pipes and tubes can be used for many purposes such as steel pipes for frames and shafts, bicycle frames, furnitures, cdw pipes for shockers, for various structural and engineering purposes etc. We have a very wide range of steel pipes and tubes products. The lengths of the steel pipes & tubes range from 4m to 6.5m unless otherwise specified by the customers. We manufacture steel pipes and tubes in various shapes and size such square, round, rectangular, triangular, and elliptical or any special shape.

Swastik Pipes Limited brings the latest modern manufacturing technology. Automatic temperature control of voltage stabilising and other electrical parameters so that no fluctuation of heat/voltage/current takes place irrespective of the speed/thickness, thereby yielding uniform bead inside the pipe and no friction loss. All pipes are subjected to all required physical and chemical tests before reaching to customer. The company has a well-maintained laboratory with provisions for offline testing at different stages of production.

The consumer of Swastik Pipes Limited is confident that only the finest quality of steel and zinc goes into production. Stringent Quality Control is exercised with latest facility right from the selection of raw material to the finished product. All tubes are subjected to extensive test including the hydraulic test, so that there is no leakages and before leaving, pipes passes through prescribed quality control process to ensure the best quality. Our Company's product is duly approved by all National / International Inspection agencies like SGS (India), DNV, BVQI, TUV and many more.





# INFRASTRUCTURE



We have a state-of-the-art infrastructure with complete facilities for production and shipment of finished goods. At our in-house production unit, all work from designing to finalization is done. With latest plant and installed machinery, our set-up enables us to undertake bulk production operation very efficiently. Moreover, we have a highly committed and motivated workforce dedicated to achieve complete customer satisfaction.

Swastik Pipes Ltd. has its state-of-the-art manufacturing plant at Bahadurgarh in Haryana (Unit-1) and at Kotwan, Kosi Kalan, Distt. Mathura in Uttar Pradesh (Unit-2). Equipped with all the latest machines

and sophisticated testing equipments, we are capable of producing products, which can fulfill different requirements of our clients.

We have sophisticated machines and technology to produce CR Coils, galvanized coil, ERW tubes, steel galvanised coil, CRCA coils and sheets and galvanized products in desired specifications and finishes. Continuous Hot-Dip galvanizing mill roll out galvanized coils of International quality. These lines are supported with on line tension leveling, trimming lines and skin pass mills, to take care of special requirements of customers in terms of coating mass, width, thickness etc.

The company has the capacity to produce 2,40,000 MT of finished goods annually. Modernization of the manufacturing facilities, stress on technological innovation and training of employees at all levels is a continuous process at Swastik Pipes Limited. Our research professionals constantly perform research and development operations, which leads us to introduce product innovation and produce pipes with enhanced durability, higher efficiency and low maintenance.





## PRODUCT RANGE

### ERW BLACK & GALVANISED PIPE

**SWASTIK PIPES LTD.** uses the Electric Resistance Welding process to manufacture pipes and tubes ranging in nominal diameter from 15mm (1/2 inch) to 300mm (12 inches) and in wall thickness from 2.00mm to 10.00mm.

Tubes are manufactured from edge trimmed Mild Steel Strips Slitted from Hot Rolled Low Carbon Steel Coil conforming to IS:10748-1995. These edge trimmed strips are mechanically formed into required circular shape and high frequency electricity, i.e., 4,50,000 cycles/second is then used to fuse the pipe together to form a weld joint thus become homogeneous part of the completed tube. The tubes then pass through the sizing section where dimensional tolerance if any are corrected, where after they are cut to length and ends beveled before hydrostatic testing.



Thereafter they are sent for protective surface finishing operation such as Hot Dipped Galvanising or Varnishing as per specific requirements. The tubes are offered beveled, plain ended or threaded with screwed & socketed.

### COLD ROLLED STEEL (CR)



With the growing demand of cold rolled strips and sheets, Swastik Pipes Limited has started manufacturing CR coils and strips in year 2003 with capacity of 1 lac MT / annum in various sizes and thickness.

On line stringent quality checks ensure the tolerances and dimension for sophisticated applications

CR production plant consists of two 4 HI and one 6 HI cold rolling mills along with bell furnaces, Skin Pass, Slitting, cut to length and testing facilities.

#### Products Range

- » CRCA strips with low carbon
- » Medium carbon steel
- » High strength low alloy steel
- » Semi processed unalloyed electrical
- » Hot rolled oiled & picketed steel (HRPO)



**Swastik Pipes Limited**  
AN ISO 9001:2008 COMPANY

## PRODUCT RANGE

### HOLLOW STEEL PIPES



We manufacture and export Hollow Steel Sections – Square Hollow Sections (SHS) and Rectangular Hollow Sections (RHS) for structural use as per IS: 4923 as per customer's requirement. These sections are available with anti rust oil coating from inside & outside to ensure safe delivery to end customers.

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 customer's

requirement. These sections are available with anti rust oil coating to ensure safe delivery to end customers.

### SWAGED TYPE TUBULAR POLE

We are manufacturing Steel Tubular Poles Conforming to IS:2713 or equivalent International specifications as per customers requirements.

Customers can be confident that only the finest quality of Steel from Steel Authority of India (SAIL) goes into the production of T.T Swastik pipes in our own plant

which is raw-material for best quality poles. This also ensures uninterrupted execution of orders of our valued customers.

We exercise stringent quality control testing with latest facility right from selection of raw-materials to the finished products. It has become a symbol of excellence and first choice for those who never compromise with the quality and strength.





# QUALITY POLICY

SWASTIK PIPES LIMITED is committed to enhancing its customer's value with product and services that set industry standards for quality and performance. We persistently strive to deliver the best and understand the value of constant improvement – setting goals and objectives throughout the organization to ensure that we are meeting our customer expectations with our products and services.

SWASTIK PIPES LIMITED is committed to Total Customer Satisfaction by providing products and services that meet and exceed their expectations through constant improvement of Quality Management Systems.

We will continually strive to improve upon the quality of the products and services by establishing and maintaining sound Quality Management Systems, motivating our employees to utilize their creativity through team work, upgrading skills and technology and training and development of our employees, ensuring competitiveness in business and working towards the future needs of customers, increasing the profitability and growth of the Organization.

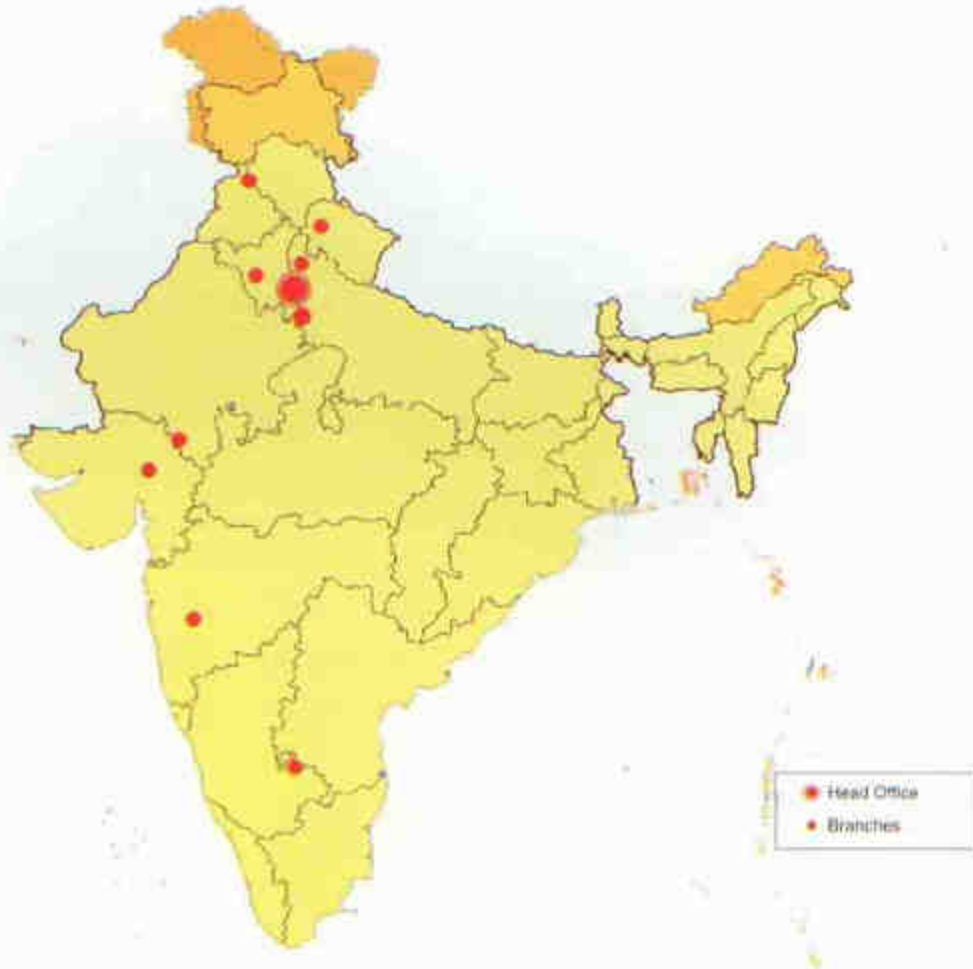
The policy statement reaffirms the commission of Management at all elements of the organization for achieving excellence on a continual basis.





# NETWORK & DISTRIBUTION

Swastik Pipes with its vision into the future has developed a vast network of Branches, Distributors, Dealers & Retailers across the country forming the core team responsible for this phenomenal growth. The company has achieved a significant presence around the world with its products being exported to various countries. It has over the years built a strong reputation for reliability,



**Corp. Office:**  
New Delhi

**Branches:**  
Haryana - Punjab - Uttar Pradesh - Rajasthan - Gujrat  
Karnatka - Maharashtra - Uttarakhand





## EXPORT



**T.T. Swastik** Brand has become a force to reckon with the international Markets with its quality being well accepted around the globe, Swastik Pipes Limited has a satisfied customer base spread over many countries of world ranging from USA, UK, UAE, Australia, Qatar, Oman, Ethiopia, Mauritius, Sri Lanka, Cyprus, Germany, Belgium, Kuwait etc. Swastik Pipes continue their endeavor to increase their customer base to serve them better.

Potential of STEEL in the world market is not limited; therefore, STEEL & ZINC are the two highest fluctuating raw materials in the World in today.

Every economy is growing at a fast rate which gives everybody the liberty to enter into International market and prove with reasonable pricing, quality, professionalism and on time delivery. These are key factors works out in International market.

We are pleased to share with you that Swastik Pipes Limited has proved himself in the international market too and have good presence in Argentina, Australia, Canada, Chile, France, Germany, Italy, Korea, Poland, Spain, The Netherlands, Turkey, United Kingdom, Vietnam.

Swastik Pipes Limited has won his race in the market slow and steadily and has reached to a level where USD 400 Million businesses are being generated every year.

With a certification of ISO 9001:2008 and a good hold in the Indian market, we have established an identification of our products in the competitive global market also. Our strong overseas network along with buying agents has made possible for us to export pipes to more than 40 countries.

Though our pipes are manufactured according to the Indian specifications, but our products are also in compliance with the international standards so as to make the process of export simple and fast. This has helped our brand in becoming a symbol of excellence and first choice in the global market.

Due to our committed approach towards providing quality products, we have been catering to the requirements of a large clientele all across the globe.

Swastik pipes limited use raw material of premium quality i.e. prime steel from SAIL - Steel Authority of India Limited (a Govt. Undertaking) and high purity zinc is being sourced from Hindustan Zinc Limited, which makes us comfortable to supply the quality material all over the Nations.

We have already made our presence in the International market and our products are well received and used around the globe. We are exporting our products to various countries under the brand name of **T.T SWASTIK**







## SWASTIK MANUFACTURED PIPES SPECIFICATION & DESCRIPTION

**Swastik Pipes Limited** is Manufacturing Electric Resistance Welded Steel Pipes and High Frequency Induction Welded Tubes according to following specification:

S.NO.	SPECIFICATION	DESCRIPTION
1	IS: 1239 (P-1)-2004	STEEL TUBES FOR USE FOR WATER, GAS, AIR & STEAM
2	IS: 3589-2001	STEEL TUBES FOR WATER & SEWAGE
3	IS: 1161-1998	STEEL TUBES FOR STRUCTURAL PURPOSE & ELECTRIC POLES
4	IS: 3601-1984	STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSE
5	IS: 9295-1983	STEEL TUBES FOR USE FOR IDLERS FOR BELT CONVEYORS
6	IS: 4270-2001	STEEL TUBES USED FOR WATER WELLS PLAIN END CASING PIPES
7	IS: 3074-1979	STEEL TUBES FOR USE FOR AUTOMOTIVE PURPOSE
8	IS: 4923-1997	STEEL TUBES FOR USE FOR HOLLOW SECTIONS FOR STRUCTURAL USE
9	IS: 1978-1982	STEEL TUBES FOR USE IN TRANSPORTATION OF OIL, GAS & PETROLEUM PRODUCTS
10	BS: 1387-1985	BRITISH STANDARDS FOR SCREWED & SOCKETED & PLAIN END STEEL PIPES
11	BS: EN-39:2001	STEEL TUBES FOR SCAFFOLDS
12	BS: EN-10210-1:1994	STEEL TUBES FOR HOT FINISHED STRUCTURAL HOLLOW SECTION OF NON ALLOY AND GRAIN STRUCTURAL STEELS
13	BS:EN-6323(P-1)1982	STEEL TUBES FOR AUTOMOBILES, MECHANICAL&GENERAL ENGINEERING PURPOSE
14	ASTM-A53, GRADE-A	AN AMERICAN STANDARD FOR STEEL PIPES, BLACK & HOT DIPPED ZINC COATED AND ELECTRIC RESISTANCE WELDED PIPES
15	API 5L - 2008	AMERICAN STANDARDS FOR STEEL TUBES FOR USE IN TRANSPORTATION OF OIL, GAS & PETROLEUM PRODUCTS



# TECHNICAL DATA OF BLACK & GALVANISED STEEL TUBES

AS PER IS - 1239 (Part-1) / BS : 1387/ 1985



NOMINAL BORE (NB) mm inches	CLASS	OUTSIDE DIAMETER		WALL THICKNESS		PLAIN ENDS		SCREWED & SOCKETED	
		MIN MM	MAX MM	MM	SWG	Kg/Mg	Mtrs/Tonne	Kg/Mtr	Mtrs/Tonne
15 (½")	L	21.00	21.40	2.00	14	0.947	1056	0.958	1046
	M	21.00	21.80	2.60	12	1.21	826	1.22	820
	H	21.00	21.80	3.20	10	1.44	694	1.45	690
20 (¾")	L	26.40	26.90	2.30	13	1.38	725	1.39	719
	M	26.50	27.30	2.60	12	1.56	641	1.57	637
	H	26.50	27.30	3.20	10	1.87	535	1.88	532
25 (1")	L	33.20	33.80	2.60	12	1.98	505	2.00	500
	M	33.30	34.20	3.20	10	2.41	415	2.43	412
	H	33.30	34.20	4.00	8	2.93	341	2.95	339
32 (1¼")	L	41.90	42.50	2.60	12	2.54	394	2.57	389
	M	42.00	42.90	3.20	10	3.10	323	3.13	319
	H	42.00	42.90	4.00	8	3.79	264	3.82	262
40 (1½")	L	47.80	48.40	2.90	11	3.23	310	3.27	306
	M	47.90	48.80	3.20	10	3.56	281	3.60	278
	H	47.90	48.80	4.00	8	4.37	229	4.41	227
50 (2")	L	59.60	60.20	2.90	11	4.08	245	4.15	241
	M	59.70	60.80	3.60	9	5.03	199	5.10	196
	H	59.70	60.80	4.50	7	6.19	162	6.26	160
65 (2½")	L	75.20	76.00	3.20	10	5.17	175	5.83	172
	M	75.30	76.60	3.60	9	6.42	156	6.54	153
	H	75.30	76.60	4.50	7	7.93	126	8.05	124
80 (3")	L	87.90	88.70	3.20	10	6.72	149	6.89	145
	M	88.00	89.50	4.00	8	8.36	120	8.53	117
	H	88.00	89.50	4.80	6	9.90	101	10.10	99
100 (4")	L	113.00	113.90	3.60	9	9.75	103	10.00	100
	M	113.10	115.00	4.50	7	12.20	82	12.50	80
	H	113.10	115.00	5.40	5	14.50	69	14.80	68
125 (5")	M	138.50	140.80	4.80	6	15.90	63	16.40	61
	H	138.50	140.80	5.40	5	17.90	56	18.40	54
150 (6")	M	163.90	166.50	4.80	6	18.90	53	19.50	51
	H	163.90	166.50	5.40	5	21.30	47	21.90	46

## TOLERANCE

Thickness: Light tubes

> 8% + Not Limited

Medium & Heavy tubes

> -10% + Not Limited

Weight : 1. Single tube (Light Series)

: +10% -8%

2. Single tube (Medium & Heavy Series)

: +10%

3. For quantities per load of 10 tonnes min. (Light Series)

: +7.5% -5%

4. For quantities per load of 10 tonnes min. (Medium & Heavy Series)

: +7.5%

Length : Light, Medium & Heavy tubes

: Random length of 4 to 7 meters unless specified otherwise.



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# ERW STEEL PIPES FOR WATER, GAS & SEWAGE AS PER IS - 3589 / 2001



NOMINAL SIZE (NB) mm	OUTER DIAMETER (OD) mm	THICKNESS mm	CALCULATED WEIGHT	
			kg./Mtrs.	Mtrs./Ton
150	168.3	4.00	16.21	61.70
150	168.3	4.50	16.17	55.00
150	168.3	4.80	19.35	51.68
150	168.3	5.00	20.14	49.66
150	168.3	5.40	21.69	46.10
150	168.3	6.00	24.02	41.64
150	168.3	7.00	27.84	35.92
175	193.7	4.00	18.70	53.00
175	193.7	4.50	21.00	48.00
175	193.7	4.80	22.35	44.72
175	193.7	5.00	23.26	43.00
175	193.7	5.40	25.07	40.00
175	193.7	6.00	27.77	36.00
175	193.7	7.00	32.20	31.00
200	219.1	4.00	21.22	47.13
200	219.1	4.50	23.81	42.00
200	219.1	4.80	25.36	39.43
200	219.1	5.00	26.40	37.87
200	219.1	5.40	28.46	35.13
200	219.1	6.00	31.53	31.71
200	219.1	7.00	36.61	27.31
250	273.1	4.00	26.50	37.68
250	273.1	4.50	29.80	33.55
250	273.1	4.80	31.75	31.50
250	273.1	5.00	33.00	30.25
250	273.1	5.40	35.63	28.00
250	273.1	6.00	39.50	25.31
250	273.1	7.00	45.91	21.77
300	323.9	4.00	31.60	32.00
300	323.9	4.50	35.40	28.00
300	323.9	4.80	37.80	26.00
300	323.9	5.00	39.30	25.00
300	323.9	5.40	42.40	24.00
300	323.9	6.00	47.00	21.00
300	323.9	7.00	54.70	18.00
300	323.9	8.00	62.30	16.00
300	323.9	9.20	71.40	14.00
300	323.9	10.00	77.40	13.00

## TOLERANCES

Thickness	: + 10%
Outside Diameter	: + 0.75%
Length	Random length 4 to 7 meters unless specified otherwise on request up to 12 meters.



# STEEL TUBES FOR STRUCTURAL PURPOSE CONFORMING TO IS : 1161 : 1998

N.B and Series	Outside Diameter	Thick-ness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
			Kg/m	m/tonne	Kg/m	m/tonne
			mm	mm		
15 L	21.3	2.0	0.947	1058	1.00	1003
M		2.6	1.21	826	1.26	794
H		3.2	1.44	694	1.49	671
20 L	26.8	2.3	1.38	725	1.43	699
M		2.6	1.55	641	1.61	621
H		3.2	1.87	535	1.92	521
25 L	33.7	2.6	1.98	505	2.03	493
M		3.2	2.41	415	2.46	407
H		4.0	2.93	341	2.98	336
32 L	42.4	2.6	2.54	394	2.62	382
M		3.2	3.10	323	3.18	314
H		4.0	3.79	264	3.87	258
40 L	48.3	2.6	3.23	310	3.34	289
M		3.2	3.56	281	3.67	272
H		4.0	4.37	229	4.48	223
50 L	60.3	2.9	4.08	245	4.20	238
M		3.6	5.33	199	5.15	194
H		4.5	6.19	162	6.31	158
65 L	76.1	3.2	5.71	175	5.86	171
M		3.6	6.42	156	6.57	152
H		4.5	7.93	126	8.10	123
80 L	88.9	3.2	6.72	149	6.90	145
M		4.0	8.26	120	8.54	117
H		4.8	9.90	101	10.06	99
90 L	101.6	3.0	6.70	115	6.97	111
M		4.0	9.63	144	7.20	138
H		4.8	11.50	87	11.77	85
100 L	114.3	3.6	8.75	103	9.97	100
M		4.5	12.20	82	12.42	81
H		5.4	14.50	69	14.72	68
110 L	127.0	4.5	10.60	74	13.90	72
M		4.8	14.50	69	14.80	68
H		5.4	18.20	62	14.80	61
125 L	139.7	4.8	15.00	67	15.25	66
M		4.8	15.90	63	16.15	62
H		5.4	17.90	56	18.15	55
135 L	152.4	4.5	16.40	61	16.78	60
M		4.8	17.50	57	17.88	56
H		5.4	19.00	51	19.08	50
150 L	165.1	4.5	17.80	56	18.20	55
M		4.8	18.90	52	19.80	51
H		5.4	21.30	47	21.70	46
150 L	168.3	4.5	18.20	55	18.66	54
M		4.8	19.40	52	19.88	50
H1		5.4	21.70	48	22.24	45
H2		6.3	25.20	40	41.80	24
175 L	193.7	4.8	22.40	45	22.94	44
M		5.4	25.10	40	25.64	39
H		5.9	27.30	37	27.84	36
200 L	219.1	4.8	25.40	39	25.95	39
M		5.8	29.50	34	30.05	33
H		5.9	31.00	32	31.55	32
225 H	244.5	5.9	34.70	29	35.36	28
250 H	273.0	5.9	38.90	26	39.68	25
300 H	323.9	6.3	49.30	20	50.20	20
350 H	355.8	8.0	68.50	15	69.58	14

## TENSILE PROPERTIES

GRADE	Y.S. (MIN) Mpa (Kg/mm <sup>2</sup> )	T.S. (MIN) Mpa (Kg/mm <sup>2</sup> )	% age Elongation
YST-210	210 (21.42)	330 (33.66)	20
YST-240	240 (24.48)	410 (41.82)	17

## TOLERANCES

i) On outside diameter up to & including 48.3 mm

= + 0.4mm / - 0.8mm

ii) Over 48.3mm = +1%

## THICKNESS

For all Size

Welded Tubes

## TOLERANCES

+ Not limited

-10

## WEIGHT

Single Tube

## TOLERANCES

i) Light Class

+10% / - 8%

ii) Medium & Heavy Class

±10%

## 10 Tonne Lot

i) Light Class

±5%

ii) Medium & Heavy Class

±7.5%





# HOLLOW STEEL SECTIONS FOR STRUCTURAL USE AS PER IS : 4923 : 1997

## SQUARE HOLLOW SECTIONS (SHS)

SECTION SHS (MM)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg/m)	Mts./Tonne
16 x 16	16.00	16.00	1.80	0.83	1204
	16.00	16.00	2.40	1.07	935
19 x 19	19.00	19.00	1.80	0.99	1010
	19.00	19.00	2.40	1.29	775
25 x 25	25.00	25.00	2.60	1.89	592
	25.00	25.00	3.20	1.98	505
30 x 30	30.00	30.00	2.60	2.10	476
	30.00	30.00	3.20	2.49	402
	30.00	30.00	4.00	2.94	340
40 x 40	40.00	40.00	2.60	2.92	342
	40.00	40.00	3.20	3.49	287
	40.00	40.00	3.60	3.85	260
	40.00	40.00	4.00	4.20	238
50 x 50	50.00	50.00	2.90	4.35	230
	50.00	50.00	3.20	4.77	210
70 x 70	70.00	70.00	3.20	6.71	148
	70.00	70.00	4.00	8.22	122
	70.00	70.00	4.80	9.68	104
80 x 80	80.00	80.00	3.60	9.38	107
	80.00	80.00	4.50	11.52	87
	80.00	80.00	4.90	12.44	80
100 x 100	100.00	100.00	3.60	9.67	103
	100.00	100.00	4.50	11.88	84
	100.00	100.00	5.40	14.01	71
120 x 120	120.00	120.00	4.80	15.92	63
	120.00	120.00	5.40	17.74	56
132 x 132	132.00	132.00	4.80	18.71	53
	132.00	132.00	5.40	20.88	48
150 x 150	150.00	150.00	5.00	22.26	45

GRADE	T.S. (min)	Y.S. (min)	Elongation	
	Mpa	Mpa	25.4mm & under	Over 25.4 mm
YST-210	330	210	12	20
YST-240	410	240	10	15
YST-310	450	310	8	10

### TOLERANCES

O.D.	+/-0.5 mm
Thickness	+/-10%
Weight	
(1) Single Pipe	-8%+10%
(2) On lots of 10 Tonne	±7.5%

## RECTANGULAR HOLLOW SECTIONS (RHS)

SECTION SHS (MM)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg/m)	Mts./Tonne
30 x 20	30.00	20.00	2.00	1.47	680
40 x 20	40.00	20.00	2.00	1.78	562
50 x 25	50.00	25.00	2.90	2.88	336
	50.00	25.00	3.20	3.24	309
60 x 40	60.00	40.00	2.90	4.12	243
	60.00	40.00	3.20	4.50	222
66 x 33	66.00	33.00	2.90	4.07	248
	66.00	33.00	3.60	4.93	203
	66.00	33.00	4.50	5.95	168
70 x 30	70.00	30.00	2.90	4.12	243
	70.00	30.00	3.20	4.50	222
	70.00	30.00	4.00	5.45	183
80 x 40	80.00	40.00	2.90	5.03	199
	80.00	40.00	3.20	5.50	182
	80.00	40.00	4.00	6.71	149
96 x 48	96.00	48.00	3.20	6.71	149
	96.00	48.00	4.00	8.22	122
	96.00	48.00	4.80	9.68	104
122 x 61	122.00	61.00	3.60	9.67	103
	122.00	61.00	4.50	11.88	84
	122.00	61.00	5.40	14.01	71
145 x 82	145.00	82.00	4.80	15.92	63
	145.00	82.00	5.40	17.74	56
172 x 92	172.00	92.00	4.80	18.71	53
	172.00	92.00	5.40	20.88	48



# TECHNICAL DATA OF PIPES CONFORMING TO API 5L-2008



Size	Outside Diameter		Wall Thickness		Mass of Plain end Pipes		Standard Test Pressure									
							Grade A	Grade B	Grade X42	Grade x 46	Grade x 52	Grade x 56	Grade x 60	Grade x 65		
	mm	inch	mm	inch	kg/mtr.	lb/ft	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa		
3%	88.9	3.500	2.1	0.083	4.50	3.03	5.9	6.8	8.2	9.0	10.2	10.9	12.7	13.6	15.0	
			2.8	0.109	5.95	3.95	7.8	9.1	11.0	12.0	13.6	14.6	15.6	16.9	17.9	19.4
			3.2	0.125	6.76	4.51	8.9	10.4	12.5	13.7	15.5	16.7	17.9	20.1	20.7	20.7
			3.6	0.141	7.57	5.06	10.1	11.7	14.1	15.1	17.1	17.4	18.8	20.1	20.7	20.7
			4.0	0.156	8.37	5.60	11.2	13.0	15.7	17.2	18.8	20.7	20.7	20.7	20.7	20.7
			4.4	0.172	9.17	6.12	12.3	14.3	17.2	18.6	20.5	20.7	20.7	20.7	20.7	20.7
			4.8	0.188	9.95	6.66	13.4	15.6	18.8	20.7	20.7	20.7	20.7	20.7	20.7	20.7
			5.5	0.219	11.31	7.58	15.4	17.2	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
			2.1	0.083	5.15	3.48	5.1	6.0	7.2	7.9	8.9	9.6	10.9	12.8	13.7	14.8
			2.8	0.109	6.82	4.53	6.8	8.0	9.6	10.5	11.9	12.8	14.8	15.6	16.9	18.0
4	101.6	4.000	2.1	0.083	6.82	4.53	6.8	8.0	9.6	10.5	11.9	12.8	14.8	15.6	16.9	
			2.8	0.109	7.78	5.18	7.8	9.1	11.0	12.0	13.6	14.6	15.6	16.9	18.0	
			3.2	0.125	8.74	5.73	8.9	10.4	12.5	13.7	15.5	16.7	17.9	20.1	20.7	
			3.6	0.141	9.70	6.28	10.1	11.7	14.1	15.1	17.1	17.4	18.8	20.1	20.7	
			4.0	0.156	10.66	6.83	11.2	13.0	15.7	17.2	18.8	20.7	20.7	20.7	20.7	
			4.4	0.172	11.62	7.38	12.3	14.3	17.2	18.6	20.5	20.7	20.7	20.7	20.7	
			4.8	0.188	12.58	7.93	13.4	15.6	18.8	20.7	20.7	20.7	20.7	20.7	20.7	
			5.5	0.219	14.54	9.49	15.4	17.2	20.7	20.7	20.7	20.7	20.7	20.7	20.7	
			2.1	0.083	8.82	5.93	8.9	10.4	12.5	13.7	15.5	16.7	17.9	20.1	20.7	
			2.8	0.109	11.66	7.66	10.1	11.7	14.1	15.1	17.1	17.4	18.8	20.1	20.7	
4 1/2	114.3	4.500	2.1	0.083	10.66	7.04	10.8	12.5	15.1	16.5	18.0	20.4	20.7	20.7	20.7	
			2.8	0.109	13.40	8.77	12.3	14.2	16.8	18.3	20.0	20.7	20.7	20.7		
			3.2	0.125	15.01	10.02	13.0	15.2	18.3	20.0	20.7	20.7	20.7	20.7		
			3.6	0.141	16.62	11.27	13.7	16.4	19.5	20.7	20.7	20.7	20.7	20.7		
			4.0	0.156	18.23	12.52	14.4	17.6	20.7	20.7	20.7	20.7	20.7	20.7		
			4.4	0.172	19.84	13.77	15.1	18.8	20.7	20.7	20.7	20.7	20.7	20.7		
			4.8	0.188	21.45	15.02	15.8	20.0	20.7	20.7	20.7	20.7	20.7	20.7		
			5.5	0.219	25.01	17.00	16.2	19.5	20.7	20.7	20.7	20.7	20.7	20.7		
			2.1	0.083	11.92	7.96	11.9	13.4	14.6	16.6	18.6	19.6	20.7	20.7	20.7	
			2.8	0.109	15.96	10.67	13.2	15.2	18.3	20.0	20.7	20.7	20.7	20.7		
5	141.3	5.983	2.1	0.083	13.40	8.77	13.0	15.2	18.3	20.0	20.7	20.7	20.7	20.7		
			2.8	0.109	17.44	11.48	14.2	16.4	19.5	20.7	20.7	20.7	20.7			
			3.2	0.125	19.05	12.73	15.1	17.6	20.7	20.7	20.7	20.7	20.7			
			3.6	0.141	20.66	13.98	15.8	18.8	20.7	20.7	20.7	20.7	20.7			
			4.0	0.156	22.27	15.23	16.2	19.5	20.7	20.7	20.7	20.7	20.7			
			4.4	0.172	23.88	16.48	16.2	19.5	20.7	20.7	20.7	20.7	20.7			
			4.8	0.188	25.49	17.73	16.2	19.5	20.7	20.7	20.7	20.7	20.7			
			5.5	0.219	29.01	19.71	16.2	19.5	20.7	20.7	20.7	20.7	20.7			
			2.1	0.083	15.92	10.67	14.4	16.6	18.6	19.6	20.7	20.7	20.7	20.7		
			2.8	0.109	20.96	13.98	15.2	17.6	20.0	20.7	20.7	20.7	20.7			
6	168.3	6.625	2.1	0.083	15.01	10.02	13.0	15.2	18.3	20.0	20.7	20.7	20.7			
			2.8	0.109	19.05	12.73	14.2	16.4	19.5	20.7	20.7	20.7				
			3.2	0.125	21.62	14.63	15.1	17.6	20.7	20.7	20.7	20.7				
			3.6	0.141	24.19	16.53	15.8	18.8	20.7	20.7	20.7	20.7				
			4.0	0.156	26.76	18.43	16.2	19.5	20.7	20.7	20.7	20.7				
			4.4	0.172	29.33	20.33	16.2	19.5	20.7	20.7	20.7	20.7				
			4.8	0.188	31.90	22.23	16.2	19.5	20.7	20.7	20.7	20.7				
			5.5	0.219	37.47	25.49	16.2	19.5	20.7	20.7	20.7	20.7				
			2.1	0.083	17.00	11.27	14.4	16.6	18.6	19.6	20.7	20.7	20.7			
			2.8	0.109	22.04	14.63	15.2	17.6	20.0	20.7	20.7	20.7				
8	219.1	8.625	2.1	0.083	17.00	11.27	14.4	16.6	18.6	19.6	20.7	20.7	20.7			
			2.8	0.109	22.04	14.63	15.2	17.6	20.0	20.7	20.7	20.7				
			3.2	0.125	24.61	16.53	15.8	18.8	20.7	20.7	20.7	20.7				
			3.6	0.141	27.18	18.43	16.2	19.5	20.7	20.7	20.7	20.7				
			4.0	0.156	29.75	20.33	16.2	19.5	20.7	20.7	20.7	20.7				
			4.4	0.172	32.32	22.23	16.2	19.5	20.7	20.7	20.7	20.7				
			4.8	0.188	34.89	24.13	16.2	19.5	20.7	20.7	20.7	20.7				
			5.5	0.219	40.47	27.39	16.2	19.5	20.7	20.7	20.7	20.7				
			2.1	0.083	19.05	12.73	15.1	17.6	20.0	20.7	20.7	20.7				
			2.8	0.109	24.09	16.04	15.8	18.8	20.7	20.7	20.7	20.7				
10	273.1	10.750	2.1	0.083	19.05	12.73	15.1	17.6	20.0	20.7	20.7	20.7				
			2.8	0.109	24.09	16.04	15.8	18.8	20.7	20.7	20.7					
			3.2	0.125	26.66	17.94	16.2	19.5	20.7	20.7	20.7					
			3.6	0.141	29.23	19.84	16.2	19.5	20.7	20.7	20.7					
			4.0	0.156	31.80	21.74	16.2	19.5	20.7	20.7	20.7					
			4.4	0.172	34.37	23.64	16.2	19.5	20.7	20.7	20.7					
			4.8	0.188	36.94	25.54	16.2	19.5	20.7	20.7	20.7					
			5.5	0.219	42.52	28.80	16.2	19.5	20.7	20.7	20.7					
			2.1	0.083	21.10	14.12	15.1	17.6	20.0	20.7	20.7	20.7				
			2.8	0.109	26.14	17.43	15.8	18.8	20.7	20.7	20.7					
12	323.9	12.750	2.1	0.083	21.10	14.12	15.1	17.6	20.0	20.7	20.7	20.7				
			2.8	0.109	26.14	17.43	15.8	18.8	20.7	20.7	20.7					
			3.2	0.125	28.71	19.33	16.2	19.5	20.7	20.7	20.7					
			3.6	0.141	31.28	21.23	16.2	19.5	20.7	20.7	20.7					
			4.0	0.156	33.85	23.13	16.2	19.5	20.7	20.7	20.7					
			4.4	0.172	36.42	25.03	16.2	19.5	20.7	20.7	20.7					
			4.8	0.188	38.99	26.93	16.2	19.5	20.7	20.7	20.7					
			5.5	0.219	44.57	30.19	16.2	19.5	20.7	20.7	20.7					
			2.1	0.083	23.15	15.57	15.1	17.6	20.0	20.7	20.7	20.7				
			2.8	0.109	28.19	18.88	15.8	18.8	20.7	20.7	20.7					

**Swastik Pipes Limited**  
AN ISO 9001:2008 COMPANY





# MECHANICAL & CHEMICAL PROPERTIES OF API 5L-2008



## Mechanical Properties

PSL-1	Grade A	Grade B	Grade X42	Gradex46	Gradex52	Gradex56	Gradex60
Yield Strength (Min)	210 Mpa	245 Mpa	290 Mpa	320 Mpa	360 Mpa	390 Mpa	415 Mpa
Tensile Strength (Min)	335 Mpa	415 Mpa	415 Mpa	435 Mpa	460 Mpa	490 Mpa	520 Mpa
Elongation	As per API 5L						

PSL-2	Grade B	Gradex42	Gradex46	Gradex52	Gradex56	Gradex60	Gradex65
	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa	Mpa
Yield Strength (Min)	245-450	290-495	320-525	360-530	390-545	415-565	450-600
Tensile Strength (Min)	415-760	415-760	435-760	460-760	490-760	520-760	535-760
Elongation	As per API 5L						

## Chemical Properties

### Composition, Max %

PSL-1	Carbon	Manganese	Phosphorus	Sulphur	V	Nb	Titanium
Grade A	0.22	0.90	0.03	0.03	-	-	-
Grade B	0.26	1.20	0.03	0.03	c,d	c,d	d
Grade x 42	0.26	1.30	0.03	0.03	d	d	d
Grade x 46	0.26	1.40	0.03	0.03	d	d	d
Grade x 52	0.26	1.40	0.03	0.03	d	d	d
Grade x 56	0.26	1.40	0.03	0.03	d	d	d
Grade x 60	0.26	1.40	0.03	0.03	f	f	f

c = (Nb+V) ≤ 0.06 %

d = (Nb+V+Ti) ≤ 0.15 %

f = Unless otherwise agreed (Nb+V+Ti) ≤ 0.15 %

### Composition, Max %

PSL-2	C	Mn	P	S	Si	V	Nb	Ti
Grade B	0.22	1.20	0.025	0.015	0.450	0.050	0.050	0.04
Grade x 42	0.22	1.30	0.025	0.015	0.450	0.050	0.050	0.04
Grade x 46	0.22	1.30	0.025	0.015	0.450	0.050	0.050	0.04
Grade x 52	0.22	1.40	0.025	0.015	0.450	d	d	d
Grade x 56	0.22	1.40	0.025	0.015	0.450	d	d	d
Grade x 60	0.12	1.60	0.025	0.015	0.450	g	g	g

c = (Nb+V) ≤ 0.06 %

d = (Nb+V+Ti) ≤ 0.15 %

g = Unless otherwise agreed (Nb+V+Ti) ≤ 0.15 %

### Destructive & Non-Destructive Testing

- Hydrostatic Testing 100% of pipe shall be tested at a pressure specified in above specification.
- PSL-1 (NDT) Weld seam of each pipe shall be tested by online Eddy Current Test.
- PSL-2 (NDT) Steel skelp and weld seam shall be tested by Ultrasonic Test (after hydro test)
- Flattentig
1. Flatten upto 1/2 of OD (no crack in weld)
  2. Flatten upto 1/3 of OD (no crack or breaks other than in weld)
  3. Full Flattening (No Lamination or Burnt Metal)



# TECHNICAL DATA OF PIPES CONFORMING TO ASTM A-53 GR. A & B SCH.40

NSE Designator	DN Designator	Outside Diameter		Wall Thickness		Mass of Plain End Pipes		Test Pressure	
		inch	mm	inch	mm	Kg./Mtr	lb/ft	Grade A Mpa	Grade B Mpa
		0.840	21.3	0.109	2.77	1.27	0.83	4.8	4.8
½	15	1.050	26.7	0.113	2.87	1.69	1.13	4.8	4.8
¾	20	1.315	33.4	0.133	3.38	2.50	1.68	4.8	4.8
1	25	1.660	42.2	0.140	3.56	3.39	2.27	8.3	9.0
1 ¼	32	1.900	48.3	0.145	3.68	4.05	2.72	8.3	9.0
1 ½	40	2.375	60.3	0.154	3.91	5.44	3.66	15.9	17.2
2	50	2.875	73.0	0.203	5.16	8.63	5.80	17.2	17.2
2 ½	65	3.500	88.9	0.216	5.49	11.29	7.58	15.3	17.2
3	80	4.000	101.6	0.226	5.74	13.57	9.12	14.0	16.3
3 ½	90	4.500	114.3	0.237	6.02	16.07	10.80	13.1	15.2
4	100	5.563	141.3	0.258	6.55	21.77	14.63	11.5	13.4
5	125	6.625	168.3	0.280	7.11	28.26	18.99	10.5	12.3
6	150	8.625	219.1	0.322	8.18	42.55	28.58	9.2	10.8
8	200	10.750	273.0	0.365	9.27	60.29	40.52	8.4	9.9
10	250	12.750	323.8	0.406	10.31	79.70	53.57	7.9	9.2
12	300	14.00	355.6	0.438	11.13	94.55	63.50	7.8	9.0
14	350	16.00	406.4	0.500	12.7	123.30	82.85	7.7	9.0

**Tolerances**  
 Outside Diameter: Pipe Size up to & including DN 40 ± 0.4 mm  
 Pipe Size DN 50 or Larger ± 1%  
 Thickness: -12.5% (max)  
 Weight: ± 10%

**Testing**  
 Online NDT: For Pipes NPS 2 (DN 50) or larger  
 Weld seam of each pipe shall be tested by Eddy Current Test  
 For pipes up to & including DN 50  
 Bend Test: Bending angle 90°  
 Bending radius 12 times to the OD of Tube (no crack in body & weld)  
 For pipes over DN 50  
 Flattening: 1. Flatten up to 2/3 of OD for ductility of weld  
 2. Flatten up to 1/3 of OD for ductility of steel  
 3. Full Flattening for testing of lamination

**Mechanical Properties**

	Grade A	Grade B
Yield Strength	205 Mpa (Min)	240 Mpa (Min)
Tensile Strength	330 Mpa (Min)	415 Mpa (Min)
Elongation	As per ASTM A-53	

Chemical Properties

	Composition, Max. %								
	Carbon	Manganese	Phosphorus	Sulphur	Copper	Nickel	Chromium	Molybdenum	Vanadium
Grade A	0.25	0.05	0.95	0.045	0.50	0.40	0.40	0.15	0.08
Grade B	0.30	0.05	1.20	0.045	0.50	0.40	0.40	0.15	0.08

Cu + N + Cr + Mb + V < 1%

**Galvanizing**  
 Minimum: 0.490 Kg/Sq. Mtr.  
 Average: 0.550 Kg/Sq. Mtr.





# LINE PIPES FOR USE IN OIL, GAS & PETROLEUM INDUSTRIES CONFORMING TO IS : 1978



NB (mm)	OD (mm)	Wall Thickness (mm)	Plain End Weight (Kg/m)	Test Pressure (Min)	
				Grade Yst 210 STD 100 Kpa	Grade Yst 240 STD 100 Kpa
80	88.90	3.20	6.76	89	104
		3.60	7.57	101	117
		4.00	8.37	112	130
		4.50	9.17	123	143
		4.80	9.95	134	156
		5.50	11.31	154	172
90	101.60	3.80	8.70	88	102
		4.00	9.63	98	114
		4.40	10.55	108	125
		4.80	11.48	117	137
		5.70	13.48	139	162
		6.40	15.02	156	182
		7.10	16.55	174	193
100	114.30	3.80	9.83	78	91
		4.00	10.88	87	101
		4.80	12.96	104	121
		5.20	13.99	113	132
		5.60	15.01	122	142
		6.00	16.02	130	152
		6.40	17.03	139	162
		7.10	18.77	154	180
125	141.30	3.20	10.90	50	65
		4.00	13.94	70	82
		4.80	16.16	84	98
		5.00	18.74	98	115
		6.00	21.92	116	135
		7.10	23.50	125	145
150	168.30	3.60	14.62	53	62
		4.00	16.21	59	70
		4.80	19.35	71	81
		5.20	20.91	77	89
		5.80	22.47	83	96
		6.40	25.55	94	110
		7.10	28.22	105	122

NB (mm)	OD (mm)	Wall Thickness (mm)	Plain End Weight (Kg/m)	Test Pressure (Min)	
				Grade Yst 210 STD 100 Kpa	Grade Yst 240 STD 100 Kpa
200	219.10	4.80	25.37	64	83
		5.60	29.48	63	74
		6.40	33.57	73	84
		7.00	36.61	79	92
250	273.10	4.80	31.76	44	51
		5.60	36.94	51	59
		6.40	42.09	56	68
		7.10	46.57	65	75
		7.80	51.03	71	83
		8.70	56.72	79	92
		9.30	60.50	85	98
300	323.90	4.80	37.77	37	43
		5.60	43.96	43	50
		6.40	50.14	49	57
		7.10	55.47	54	63
		7.90	61.56	61	71
		8.40	65.35	64	75
		8.70	67.62	67	78
		9.50	73.65	73	85
350	355.60	4.80	41.52	34	38
		5.20	44.93	36	42
		6.40	55.11	45	52
		7.10	61.02	50	58
		7.90	67.74	55	64
		8.70	74.42	61	71
		9.50	81.08	66	77
400	406.40	4.80	47.54	29	34
		5.20	51.45	32	37
		5.60	55.35	34	40
		6.40	63.13	39	46
		7.10	69.81	43	51
		7.90	77.63	48	56
		8.70	85.32	53	62
		9.50	92.98	58	68

### A. Outside Diameter - The Outside Diameter Tolerances

Shall be as follow.

Pipe Body

For size

48.3 mm and less

Tolerance

+0.04mm

-0.08mm

60.3 mm and above

+/-1%

### B. Wall Thickness - The Tolerances on the wall thickness of line pipes shall be as follow :

Type	For	Tolerance
Welded Pipes	73.0 mm and smaller	+20.0%
		-12.5%
	88.9 mm Outer Dia & Higher Dia	+18.0%
		-12.5%

### C. Weight

Single Lengths

Standard Weight, regular weight, extra strong and double extra strong pipe

Grade Yst - 210 and Yst - 240 +10.0%  
-3.5%

Special plain end pipes - All Grades +10.0%  
-5.0%

Car loads lots for min 18000 Kg : -1.75%  
Grade Yst 210 & Yst 240 - 2.5%



# CARBON STEEL TUBES & PIPES

## ERW STEEL TUBES FOR IDLERS FOR BELT CONVEYORS AS PER IS 8295-1983 DIMENSIONS AND NOMINAL MASSES

OUTSIDE DIAMETER-MM	THICKNESS MM	MASS KG./MTRS.	METERS TONNE
63.50	3.85	5.30	166
	4.05	5.94	168
	4.50	6.55	153
	4.85	7.01	143
	5.40	7.74	129
76.10	6.30	8.89	112
	3.65	6.52	153
	4.05	7.20	139
	4.50	7.85	126
	4.85	8.52	117
88.90	5.40	9.42	106
	6.30	10.24	82
	4.05	8.47	118
	4.50	9.37	107
	4.85	10.05	99
101.60	5.40	11.12	90
	6.30	12.83	78
	4.05	9.74	103
	4.50	10.78	93
	4.85	11.57	86
114.30	5.40	12.81	78
	6.30	14.61	68
	4.50	12.19	92
	4.85	13.09	76
	5.40	14.50	69
127.0	4.50	13.59	74
	4.85	14.61	68
	5.40	16.19	62
	6.30	18.75	53
	139.70	4.50	15.00
4.85		16.13	62
5.40		17.89	56
6.30		20.73	48
152.40		4.50	16.41
	4.85	17.85	57
	5.40	19.58	51
	6.30	22.70	44
	165.10	4.50	17.15
4.85		18.44	54
5.40		20.46	49
6.30		23.72	42
168.30		4.50	17.82
	4.85	19.17	52
	5.40	21.27	47
	6.30	24.87	41
	193.70	4.50	18.18
4.85		19.55	48
5.40		21.69	44
6.30		25.17	40
219.10		5.40	25.08
	6.30	29.12	34
	8.30	33.06	35

## STEEL TUBES FOR WATER WELLS (CASING PIPES) CONFORMING TO IS - 4270:2001

N.B & Series	Outside diameter mm	Thickness mm	Normal weight Black Tubes Plain End.	
			kg/m	m/tonne
100	114.30	5.00	13.48	74.20
		5.00	16.81	59.50
125	141.30	5.00	20.14	49.66
150	168.30	5.00	25.08	39.88
175	193.70	5.40	28.46	35.14
200	219.10	5.40	35.29	28.34
225	244.50	6.00	46.58	21.47
250	273.10	7.10	55.47	18.03
300	323.90	7.10		

### A. PHYSICAL PROPERTIES

Grade	Y.S (min) Mpa	T.S (min) Mpa	%Elongation (Min)
Fe 410	235	410	15
Fe 450	275	450	13

### B. TOLERANCES

- i) Outside diameter of pipe  $\pm 1\%$
  - ii) Thickness  $+ 15\% / - 12.5\%$
  - iii) weight upto 406.4 mm OD  $+ 15\% / - 10\%$
  - iv) Single Tube  $+ 10\%$
  - Length  $- 8\%$
- Unless otherwise specified 4 to 7 mtrs.  
On request up to 12 mtrs.

Tolerance on Outside Diameter  $\pm 0.8\%$   
 Ovality below 168.3mm : 0.5mm  
 Ovality including 168.3mm and above : 1.0mm  
 Tolerance on weight Kg/Mtr : Single Tube :  $\pm 10\%$   
 For Truck Load of 10 Tonnes :  $\pm 7.5\%$   
 Tolerance on Thickness :  $\pm 10\%$





# CLIENTELE

1. ABB LTD.
2. Bharat Heavy Electrical Ltd. (BHEL)
3. Bharat Heavy Plate & Vessels Ltd. (BHPV)
4. Bharat Petroleum Corporation Limited (BPCL)
5. Bharat Oman Refineries limited (BORL)
6. Bridge & Roof Co. (India) Ltd (B & R)
7. BPCL KOCHI Refinery
8. Bharat Sanchar Nigam LTD. (BSNL)
9. Bongaigaon Refinery & Petrochemicals Ltd. (BRPL)
10. Central Ground Water Board (CGWB)
11. Chennai Petroleum Corporation Ltd. (CPCL)
12. Director General of Supplies & Disposals (DGS &D)
13. Engineers India Limited (EIL)
14. Essar Group
15. Gujrat Water Supply & Sewerage Board (GWSSB)
16. Gas Authority of India Limited (GAIL)
17. Gujrat Gas Co. Ltd. (GGCL)
18. Hindustan Zinc Ltd. (HZL)
20. Hindustan Copper Limited
21. Mittal Energy Ltd. (HMEL)
22. Hindustan Petroleum Corporation LTD. (HPCL)
23. Indian Oil Corporation Limited (IOCL)
24. IPGCL, New Delhi
25. I & PH Shimla (IPH)
26. Indian Railways & Delhi Metro Railways (DMRC)
27. Indraprastha Gas Limited
28. India Oil Tanking LRD. (IOTL)
29. Larsen & Turbo LTD. (L & T)
30. Mahanadi Coalfields Ltd (MCL)
31. Manglore Refinery & Petrochemical LTD. (MRPL)
32. National Thermal Power Corporation Limited (NTPC LTD.)
33. National Fertilizers LTD. (NFL)
34. National Aluminum Co. Ltd. (NALCO)
35. Neyveli Lignite Corporation LTD. (NLC)
36. Naftogaz India Ltd.
37. Northern Coal Fields LTD (NCL)
38. Oil & Natural Gas Corporation Ltd. (ONGC)
39. Oil India Ltd., Dullajan (OIL)
40. Punj Loyds LTD.
41. Rajasthan Rajya Vidyut Utpadan Nigam Ltd. (RRVUNL)
42. Reliance Group
43. Rajasthan State Mines & Minerals Ltd. (RSMM)
44. Steel Authority of India limited (SAIL)  
(a) Rouerkela  
(b) BOKARO  
(c) BHILAI
45. Sahara India
46. Toyo Engeneering Corporation
47. Telecom Factory Jabalpur
48. Tehri Hydro Development Corporation (THDC)



MAHANAGAR  
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**Swastik Pipes Limited**  
AN ISO 9001:2008 COMPANY



# SWASTIK Pipes Limited

Manufacturers & Exporters

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Tel.: 01628-328118 Email: ludhiana@swastikpipes.com
- Ghaziabad (UP) : 149-P.I.E. UP Border, Ghaziabad Tel.: 0120-2627627, 4103847 E-mail: ghaziabad@swastikpipes.com
- Pune (Maharashtra) : Oswal Ware House, Survey No. 13, Poona Saswad Road, Devachi Uruli,  
Tel.: 020-26989471 Email : pune@swastikpipes.com
- Navi Mumbai : Plot No.236, Road No.2, Steel Warehousing Complex Kalamboli, Taluka-Panvel  
Navi Mumbai - 410218 Phone No. 022-27424802
- Dhule (Maharashtra) : Kolkar Complex, Gate No. 14/1a/2 Shop No. 105, Awadhan Phata, Post Awadhan  
Dhule - 424311 Maharashtra Phone No. 0256-2281310
- Jaipur (Raj) : Bar Peepali Bus Stand, Nindar Sikar Road, Jaipur Tel.: 0141-2263265 Email:  
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- Bangalore : Sy. No. 27/1, Begur Village, Begur Hobli, Bangalore South Taluk  
Bangalore - 560 083 Mobile No.: 09986415889
- Roorkee (U.Kh.) : Near Railway Station, Paniala Road, Vill. Padligujjat, Roorkee,  
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