NEXTEEL is the no.1 API ERW OCTG manufacturer and the best partner of the oil & gas industry.

CEO's Message

"The perfect or nothing"

Producing the best quality pipe is our priority.
To assure the best quality, NEXTEEL has made the best effort by applying our business philosophy of "Conviction, Loyalty and Trust through best product and service", as a company which seeks changes and advances in the era of global competition.
NEXTEEL has been continuously working on business innovation and technology development, in the rapidly changing business environment. We are growing as a specialized company in API steel pipe manufacturing with international level competitiveness based on lavish investment.
We pursue to become one of the world top class steel companies by building a consumer-focused international distribution network through business innovations.
We look forward to your support and interest, and we will keep doing our best in the enhancement of customer value, and become a reliable business partner for you with outstanding quality and excellent service.
Thank you very much.

CEO
Hyo-jung, Park

Philosophy of NEXTEEL

01 Loyalty

Loyalty is to willingly lend a helping hand to others when asked, no matter what adversity one may be undergoing. When one is well off, it is not hard to help others; however, when one is in difficulty, it is difficult to help others. Treating others as we would like to be treated is our philosophy.

02 Conviction

Conviction is to pursue and realize one's belief. While everyone is free to hold his or her own belief, it is very difficult to remain faithful to one's belief under unfavorable circumstances, not to mention to realize it. History is made by those who have strong conviction and work hard to realize it.

03 Trust

While we love trustworthy people, it is important to remember that we should be trustworthy first. We should not promise too many things to others, but once we make a promise, we should do our best to fulfill it no matter how trivial it may be.

NEXTEEL Co., Ltd., an ERW pipe manufacturer, is equipped with the state of art facilities and produces API 5CT casing & tubing and API 5L line pipe for energy development of oil and gas. NEXTEEL has the capability of producing up to 716,000 MT of steel pipe, casing & tubing a year as one of the biggest API ERW OCTG manufacturers.
NEXTEEL also specializes in heat-treated steel products. NEXTEEL can heat-treat 205,000 MT of pipe every year. It supplies in the range of 2.375" ~ 9.625" in outer diameter.
NEXTEEL has opened an oversea office in Houston, Texas, USA called NEXTEEL AMERICA. NEXTEEL AMERICA is bringing their vision of aligning itself closer to its most valued customers and the market by improving customer service in order to make sure their needs are satisfied.

Capacity (716,000 MT)

1. Pipe manufacturing line (5 mill lines for Tubing, Casing and Line pipe)

Facilities	O.D (inch)	Thickness (inch)	Length (feet)	Capability (ton/year)
16" Mill Line	7.000" ~ 16.000"	0.157" ~ 0.625"	60'	240,000
8" Mill Line	3.500" ~ 8.625"	0.125" ~ 0.625"	45'	200,000
5" Mill Line	2.375" ~ 5.500"	0.125" ~ 0.531"	45'	120,000
4" Mill Line	1.900" ~ 4.500"	0.125" ~ 0.531"	45'	120,000
2" Mill Line	12.7 ~ 60.3 (mm)	0.8 ~ 4.3 (mm)		36,000

2. Pipe processing line (Tubing & Casing)

Facilities		Grade	O.D. (inch)	Thickness (inch)	Capability (ton/year)
Heat treatment	Casing	L80, N80, P110, Q125	4.500" ~ 9.625"	0.250" ~ 0.545"	120,000
	Tubing		2.375" ~ 5.500"	0.190" ~ 0.415"	85,000
Threading	#1 Line		2.375" ~ 8.625"	-	30,000
	#2 Line		4.500" ~ 13.375"	-	30,000
Upsetting			2.375" ~ 3.500"	0.190" ~ 0.254"	Max 140 pcs / hr

History

1990 — The company was established.

1995 — Slitter lines and Shear lines were installed.

2002 — The pipe mill lines were installed and began to manufacture steel pipe.

2006 — Pohang main factory (#1) was built and 16 inch pipe mill was completed.

2006 — API 5CT and certificates for Pohang main factory (#1) were obtained.

2007 — 8 inch ultra heavy wall pipe mill line was completed at Pohang main factory (#1)

2010 — Pohang main factory (#2) was built and 4 inch pipe mill line was completed.

2010 — API 5CT and 5L certificates for Pohang main factory (#2) were obtained.

2012 — Nexteel America LLC was established in Houston, TX.

2012 — Nexteel QNT was established and Gyeong-ju 1st factory was built.

2013 — Heat treatment line & Finishing line (for Casing) were completed at Gyeong-ju 1st factory

2014 — 5 inch ultra heavy wall pipe mill line was completed at Pohang 2nd factory.

2014 — API 5CT and 5L certificates for Pohang 2nd factory were obtained.

2016 — Heat treatment line & Finishing line (for Tubing) were installed at Gyeong-ju 1st factory.

2016 — Upsetting line was installed at Gyeong-ju 1st factory

CLASSIFICATIONS OF PRODUCTS

Classifications of API OCTG pipe

Spec.		Grade	O.D. (inch)	W.T. (inch)	Pipe end
API 5CT	Tubing	J55 Upgradable to L80/N80 grade Upgradable to P110 grade L80 type 1 P110	2.375"~ 4.500"	0.125"~ 0.369"	Plain end Upset end Threaded & Coupled
	Casing	H40 K55 / HC-K55 * J55 / J55 FBN (Full Body Nomalized) J55 Upgradable to L80 / N80 grade J55 Upgradable to P110 grade	4.500"~ 16.000"	0.125" ~ 0.575"	Plain end Threaded & Coupled
		N80 type Q / HC-N80 type Q L80 type 1 / HC-L80 type 1 / HP-L80 P110 / HC-P110 / HP-P110 Q125	4.500"~ 9.625"		
Others	As rolled Products	NEXT80 (Equivalent to N80)	4.500"~9.625"**	0.250"~0.430"	Plain end Upset end Threaded & Coupled

* NEXTEEL's HC(High Collapse) product is a controlled yield strength of product with demonstrated collapse resistance exceeding the minimum values for API standard.

** Other sizes can be consulted with Mill.

API OCTG Pipe properties

Grade	Yield strength (psi)		Tensile strength Min. (psi)	Max. hardness requirement	
	Min.	Max.		Single (1)	Mean (3)
H40	40,000	80,000	60,000	-	-
J55	55,000	80,000	75,000	-	-
K55	55,000	80,000	95,000	-	-
L80	80,000	95,000	95,000	23	23
L80 HC	80,000	95,000	95,000	23	23
L80 HP	85,000	95,000	95,000	23	23
N80Q	80,000	110,000	100,000	-	-
N80 HC	80,000	110,000	100,000	-	-
N80 HP	95,000	110,000	100,000	-	-
N80 Type1	80,000	110,000	100,000	-	-
R95	95,000	110,000	105,000	-	-
P110	110,000	140,000	125,000	-	-
P110 HC	110,000	140,000	125,000	-	-
P110 HP	125,000	140,000	125,000	-	-
Q125	125,000	150,000	135,000	-	-
Q125 HC	125,000	150,000	135,000	-	-
Q125 HP	135,000	150,000	135,000	-	-
HCK55	55,000	95,000	95,000	21	21
RYS110	110,000	125,000	120,000	31	30

Classifications of API Line pipe

Spec.		Grade	O.D. (inch)	W.T. (inch)	Pipe end
API 5L	PSL 1 PSL 2	A B X42 X46 X52 X56 X60 X65 X70 X80	2.375" ~ 16.000"	0.125"~ 0.625"	Plain end Bevel end Threaded & Coupled

Classifications of other products

Classification	Spec.	Grade	O.D. (mm)	W.T. (mm)
For low pressure	ASTM A53A / JIS G 3452 / KS D 3507	A/ SGP / SPP	27mm ~ 406.4mm	1.4mm ~ 16mm
For pressure service	ASTM A53B / KS D 3562 / JIS G 3454	B / STPG / SPPS		
For fuel gas	KS D3631	SPPG		
For structural purpose	ASTM A500 / KS D 3566 / JIS G 3444 / KS D 3568 / JIS G 3466	A,B,C,D / STK SPSR, STKR		
For mechanical tube	ASTM A513 / KS D 3517 / JIS G 3445	TYPE1 / STKM		

■ Continuous improvement

• Upset pipe

NEXTEEL introduced the first Tube Upsetting machine in KOREA in order to provide various kinds of products with good quality to customers all around world.

• Heat-treated pipe

NEXTEEL has installed the induction type furnace for full body heat treatment with new technology in order to supply the higher grade products. So, API OCTG products such as L80, N80, P110 and Q125 can be supplied to customers now.

• Higher grade pipe without heat treatment process

NEXTEEL has successfully developed NEXT80 as rolled pipes, equivalent to N80 and continued to develop higher grade pipe where the heat treatment process was not necessary, such as NEXT110 equivalent to P110.

STRENGTH OF NEXTEEL

The most advanced facility

Specially designed pipe mill

NEXTEEL pipe manufacturing lines are specially designed to produce the pipes up to API X100 grade with ultra heavy wall.

First class welder made in US

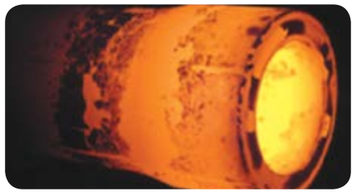
Nexteel has invested on the first class welding machine manufactured by the most well-known US Company to ensure quality of product.

Four seam annealing system

Residual stress on the pipe can be completely eliminated through 500KW anneals (the largest capacity in Korea) and homogeneous microstructure on weld seam can be obtained.

Heat treatment equipment

To guarantee the quality of NEXTEEL product, NEXTEEL has installed the induction type of heat treatment equipment manufactured by US Company which is the most famous in High Frequency Induction equipment system in the world.



Upsetting equipment

NEXTEEL has introduced the most advanced Upsetting equipment first in Korea in 2016, which is manufactured by the most well-known US Company to give customers the confidence about the quality of products.

Threading & Coupling equipment

NEXTEEL's Threading & Coupling equipment was manufactured with the best technique. NEXTEEL will continuously develop new technology for customer satisfaction.

Advantages of NEXTEEL's ERW pipe

World-class & Perfect quality assurance service

NEXTEEL has the most stringent quality control and also has Quick feedback system to maximize customer's satisfaction.

Excellence in uniformity of wall thickness.

Uniformity of cross-sectional area of the inner surface.

High productivity.

The production speed and the yield rate of ERW is higher than seamless pipes. NEXTEEL has continuously studied to improve it.

Low production cost.

The production cost of ERW is lower than seamless pipes, so it has an advantage in terms of price competitiveness.

Long pipe length up to 60ft.

Customers of NEXTEEL products can save cost and time with less joints by using the long pipe whose length is up to 60ft.

QUALITY GUARANTEE OF NEXTEEL

NEXTEEL has adopted top-class inspection equipment to guarantee the best quality of product. And, NEXTEEL will continuously invest in improvement on accuracy of inspection equipment.

Inspection equipment of NEXTEEL

• Advanced On-Line UT

- With Phase Array type on-line UT, real-time inspection on both weld seam and inside weld bead is possible.
- As it is adjustable to change the seam position, inspection area of weld seam is expanded more than other types.
- Real time line control upon operator's judgment is possible when quality troubles occur.

• Advanced Off-Line UT

- Weld seam: Phase Array Multi-channel (10 channels) type can improve inspection accuracy and reliability.
- Base metal of Pipe body: Full Body UT inspection on both based metal and weld seam is performed with Rotary UT which is superior to ECT (Eddy-Current Test) or Magnetic flux leakage.

• Hydrostatic tester

- Capacity of up to 7,260 psi (511 bars) with 3 heads. It improves production efficiency and inspection reliability.

• Complete test equipment line up

- Upmost quality assurance with all necessary test equipment line up:
  Universal tension testing machine, Chemical composition analysis machine, Metallurgical microscope, Salty spray tester, Hardness tester, Impact tester, Specimen cutting machine, HIC (Hydrogen Induced Cracking), SSCC (Sulfides Stress Corrosion Cracking) tester, DWTT(Drop Weight Tear Tester),etc.

Inspection in Heat treatment mill line

• Hydrostatic test

- Max. pressure: Max. 700 bar (10,000 psi) / OD range: 2.375"~9.625"
  / Product length: 28~48 feet

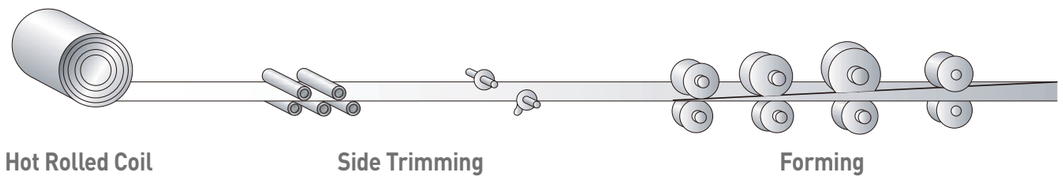
• NDT(Non-Destructive Test)

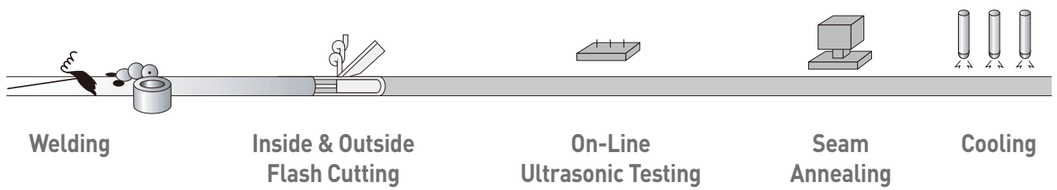
- Weld seam Phase Array UT / Full body Rotary UT / Full body MLFT / Full body ECT / Pipe ends M.T for SEA

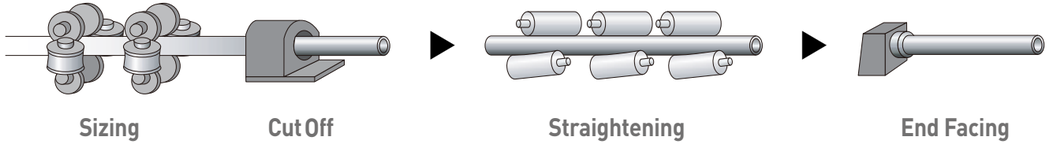
• Collapse test

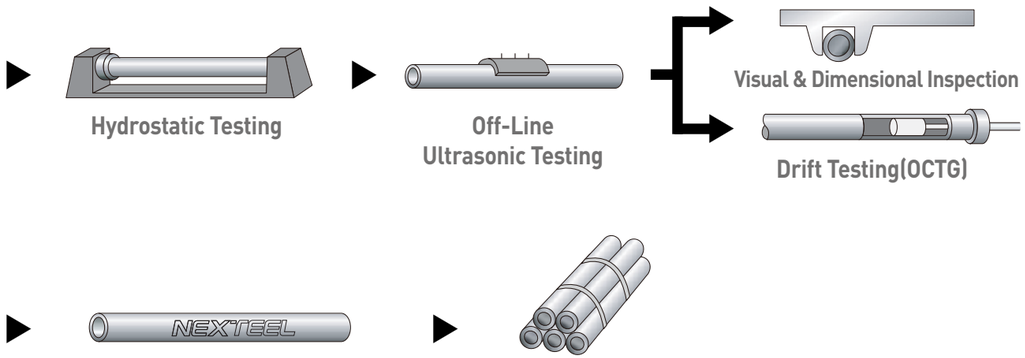
- Max. pressure: 20,000 psi / Grade: K55, L80, N80, P110, Q125 / O.D. range: 4.500" ~ 9.625"

ERW MANUFACTURING PROCESS









CERTIFICATE

System

Certificate		Scope	Approved date
API	ISO 9001	Steel pipes, Line pipes, Casing & Tubing pipes for the oil and gas Industry	Aug. 2007
	API Spec. Q1	Steel pipes, Line pipes, Casing & Tubing pipes for the oil and gas industry	Jun. 2006
ICR	ISO 14001	Steel pipes, Line pipes, Casing & Tubing pipes	Nov. 2008

Products

Certificate		Scope	Approved date
API	5CT	Manufacturer of casing and tubing plain end at group 1, 2, 3 and 4.	Jun. 2006
		Manufacturer of Casing and Tubing Threaded & Coupled at group 1, 2, 3 and 4	Feb. 2013
	5L	Manufacturer of line pipe plain end at PSL1, PSL2.	Jun. 2006
		Manufacturer of Line pipe Threaded & Coupled	Feb. 2013
KS		Manufacturer of fuel gas pipes in Pohang main #1 & #2 factory and Pohang 2nd factory	Oct. 2009
		Manufacturer of ordinary, pressure, structure, square pipes in Pohang main #1 & #2 factory and Pohang 2nd factory	May. 2007
JIS		Manufacturer of ordinary, pressure, structure, square pipes in Pohang main #1 & #2 factory and Pohang 2nd factory	Sep. 2008

Manufacturing process

Certificate	Scope	Approved date
DNV	Approval certificate for manufacturing process in steel tubes and pipes	Mar. 2010
GL	Approval certificate for manufacturing process in steel tubes and pipes	Feb. 2009
BV	Approval certificate for manufacturing process in steel tubes and pipes	Jan. 2009
LR	Approval certificate for manufacturing process in welded pipes and tubes	Aug. 2008
ABS	Approval certificate for manufacturing process in steel tubes and pipes	Jan. 2008
KR	Approval certificate for manufacturing process in steel tubes and pipes	Nov. 2007

SIZE RANGE

Round Pipe

OD		Thickness																				
		(inch)	0.114	0.126	0.138	0.157	0.177	0.197	0.217	0.236	0.256	0.276	0.315	0.354	0.374	0.409	0.433	0.472	0.512	0.551	0.591	0.630
(inch)	(mm)	(mm)	2.9	3.2	3.5	4	4.5	5	5.5	6	6.5	7	8	9	9.5	10.4	11	12	13	14	15	16
1.900"	48.3																					
	48.6																					
2-3/8"	60.3																					
	60.5																					
2-7/8"	73.0																					
	76.3																					
3-1/2"	88.9																					
4"	101.6																					
4-1/2"	114.3																					
5-1/2"	139.7																					
5-9/16"	141.3																					
	165.2																					
6-5/8"	168.3																					
7"	177.8																					
7-5/8"	193.7																					
	216.3																					
8-5/8"	219.1																					
	244.5																					
	267.4																					
10-3/4"	273.1																					
	318.5																					
12-3/4"	323.9																					
13-7/8"	339.7																					
14"	355.6																					
16"	406.4																					
	150R																					
6"R	6"R																					
	200R																					
8"R	8"R																					
	250R																					
10"R	10"R																					

This size range shall be consulted with Mill.

Square & Rectangular Pipe

OD (Suare)		OD (Suare)		Thickness																			
				(inch)	0.035	0.039	0.055	0.075	0.079	0.110	0.114	0.118	0.130	0.150	0.161	0.165	0.173	0.177	0.220	0.287	0.315	0.354	0.394	0.512
(inch)	(mm)	(inch)	(mm)	(mm)	0.9	1.0	1.4	1.9	2.0	2.8	2.9	3.0	3.3	3.8	4.1	4.2	4.4	4.5	5.6	7.3	8.0	9.0	10.0	13.0
1x1	25x25																							
1-1/4x1-1/4	30x30		40x20																					
1-1/2x1-1/2	40x40	2x1	50x30																					
2x2	50x50	3x1	60x40																					
2-1/2x2-1/2	60x60	3x2	75x45																					
3x3	75x75	4x2	100x50																					
3-1/2x3-1/2	80x80																							
4x4	100x100	5x3	125x75																					
		6x3	150x75																					
5x5	125x125	6x4	150x100																					
6x6	150x150	8x4	200x100																					
	175x175		250x100																					
8x8	200x200	10x6																						
10x10	250x250	14x6	300x200																					

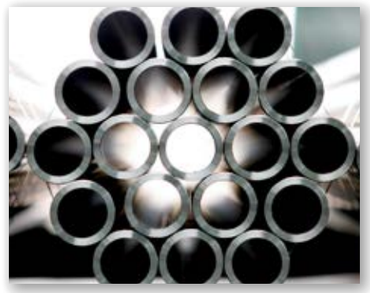
LIST OF SPECIFICATION

Specifications		Application	Chemical Requirement(%) (Max.)						Physical Requirement (Min.)			
			C	Si	Mn	P	S	Others	Yield Strength		Tensile Strength	
									MPa	psi	MPa	psi
API 5CT PSL 1	H-40	Casing and Tubing	-	-	-	0.030	0.030		276~552	40,000~80,000	414	60,000
	J-55		-	-	-	0.030	0.030		379~552	55,000~80,000	517	75,000
	K-55		-	-	-	0.030	0.030		379~552	55,000~80,000	655	95,000
	N-80		-	-	-	0.030	0.030		552~758	80,000~100,000	689	100,000
API 5L PSL 1	A25	Line Pipe	0.21	-	0.60	0.030	0.030		175	25,400	310	45,000
	A25P		0.21	-	0.60	0.045~0.080	0.030		175	25,400	310	45,000
	A		0.22	-	0.90	0.030	0.030		210	30,500	335	48,600
	B		0.26	-	1.20	0.030	0.030		245	35,500	415	60,200
	X 42		0.26	-	1.30	0.030	0.030		290	42,100	415	60,200
	X 46		0.26	-	1.40	0.030	0.030		320	46,400	435	63,100
	X 52		0.26	-	1.40	0.030	0.030		360	52,200	460	66,700
	X 56		0.26	-	1.40	0.030	0.030		390	56,600	490	71,100
	X 60		0.26	-	1.40	0.030	0.030		415	60,200	520	75,400
	X 65		0.26	-	1.45	0.030	0.030		450	65,300	535	77,600
	X 70		0.26	-	1.65	0.030	0.030		485	70,300	570	82,700
API 5L PSL 2	B	Line Pipe	0.22	0.45	1.20	0.025	0.015	CE_{IIW}:0.43 CE_{Pcm}:0.25	245~450	35,500~65,300	415~760	60,200~110,200
	X42M		0.22	0.45	1.30	0.025	0.015		290~495	42,100~71,800	415~760	60,200~110,200
	X46M		0.22	0.45	1.30	0.025	0.015		320~525	46,400~76,100	435~760	63,100~110,200
	X52M		0.22	0.45	1.40	0.025	0.015		360~530	52,200~76,900	460~760	66,700~110,200
	X56M		0.22	0.45	1.40	0.025	0.015		390~545	56,600~79,000	490~760	71,100~110,200
	X60M		0.12	0.45	1.60	0.025	0.015		415~565	60,200~81,900	520~760	75,400~110,200
	X65M		0.12	0.45	1.60	0.025	0.015		450~600	65,300~87,000	535~760	77,600~110,200
	X70M		0.12	0.45	1.70	0.025	0.015		485~635	70,300~92,100	570~760	82,700~110,200
	X80M		0.12	0.45	1.85	0.025	0.015		555~705	80,500~102,300	625~825	90,600~119,700

LIST OF SPECIFICATION

PRODUCTS - API 5CT Tubing

Specifications		Application	Chemical Requirement(%) (Max.)						Physical Requirement (Min.)			
			C	Si	Mn	P	S	Others	Yield Strength		Tensile Strength	
									MPa	psi	MPa	psi
ASTM A53	A	Carbon Steel Pipes for Ordinary Piping	0.25	-	0.95	0.05	0.045	Cu:0.50 Cr,Ni:0.40 MO:0.15 V:0.08	205	30,000	330	48,000
	B		0.30	-	1.20	0.05	0.045		240	35,000	145	60,000
ASTM A500	A	Structual Carbon Steel Pipes in Round	0.30	-	1.40	0.045	0.045	Cu:0.18	228	33,000	310	45,000
	B		0.30	-	1.40	0.045	0.045		290	42,000	400	58,000
	C		0.27	-	1.40	0.045	0.045		317	46,000	427	62,000
	D		0.30	-	1.40	0.045	0.045		250	36,000	400	58,000
	A	Structual Carbon Steel Pipes in Square & Rectangular	0.30	-	1.40	0.045	0.045	Cu:0.18	269	39,000	310	45,000
	B		0.30	-	1.40	0.045	0.045		317	46,000	400	58,000
	C		0.27	-	1.40	0.045	0.045		345	50,000	427	62,000
	D		0.30	-	1.40	0.045	0.045		250	36,000	400	58,000



Size	Outside Diameter		Wall Thickness		Weight						Hydrostatic Test Pressure(psi)		
					Plain ends			Threads and Couplings (Non-Upset)					
	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m	H40	J55	N80
1.050	1.050	26.67	0.154	3.91	1.48	0.67	2.19	-	-	-	9400	10000	10000
1.315	1.315	33.40	0.133	3.38	1.68	0.76	2.50	1.70	0.77	2.53	6500	8900	10000
			0.179	4.55	2.17	0.98	3.24	-	-	-	8700	10000	10000
1.660	1.660	42.16	0.125	3.18	2.05	0.93	3.06	-	-	-	4800	6600	-
			0.140	3.56	2.27	1.03	3.39	2.30	1.04	3.42	5400	7400	10000
			0.191	4.85	3.00	1.36	4.46	-	-	-	7400	10000	10000
1.900	1.900	48.26	0.125	3.18	2.37	1.08	3.54	-	-	-	4200	5800	-
			0.145	3.68	2.72	1.23	4.05	2.75	1.25	4.09	4900	6700	9800
			0.200	5.08	3.63	1.65	5.41	-	-	-	6700	9300	10000
			0.250	6.35	4.41	2.00	6.56	-	-	-	-	-	-
			0.300	7.62	5.13	2.33	7.64	-	-	-	-	-	-
2-3/8	2.375	60.32	0.167	4.24	3.94	1.79	5.86	4.00	1.81	5.95	4500	6200	9000
			0.190	4.83	4.44	2.01	6.61	4.60	2.09	6.85	5100	7000	10000
			0.254	6.45	5.76	2.61	8.57	5.80	2.63	8.63	-	-	10000
			0.295	7.49	6.56	2.98	9.76	-	-	-	-	-	-
			0.336	8.53	7.32	3.32	10.89	-	-	-	-	-	-
2-7/8	2.875	73.02	0.217	5.51	6.17	2.80	9.17	6.40	2.90	9.52	4800	6600	9700
			0.276	7.01	7.67	3.48	11.41	7.80	3.54	11.61	-	-	10000
			0.308	7.82	8.45	3.83	12.57	8.60	3.90	12.80	-	-	10000
			0.340	8.64	9.21	4.18	13.72	-	-	-	-	-	-
			0.392	9.96	10.40	4.72	15.49	-	-	-	-	-	-
			0.440	11.18	11.45	5.19	17.05	-	-	-	-	-	-
3-1/2	3.500	88.90	0.216	5.49	7.58	3.44	11.29	7.70	3.49	11.46	3900	5400	7900
			0.254	6.45	8.81	4.00	13.12	9.20	4.17	13.69	4600	6400	9300
			0.289	7.34	9.92	4.50	14.76	10.20	4.63	15.18	5300	7300	10000
			0.375	9.52	12.53	5.68	18.64	12.70	5.76	18.90	-	-	10000
			0.430	10.92	14.11	6.40	21.00	-	-	-	-	-	-
4	4.000	101.60	0.226	5.74	9.12	4.14	13.57	9.50	4.31	14.14	3600	5000	7200
			0.262	6.65	10.47	4.75	15.57	-	-	-	4200	5800	8400
			0.330	8.38	12.95	5.87	19.27	-	-	-	-	-	-
			0.415	10.54	15.90	7.21	23.67	-	-	-	-	-	-
			0.500	12.70	18.71	8.49	27.84	-	-	-	-	-	-
4-1/2	4.500	114.30	0.271	6.88	12.25	5.56	18.23	12.60	5.72	18.75	3900	5300	7700
			0.337	8.56	15.00	6.80	22.32	-	-	-	-	-	-
			0.380	9.65	16.77	7.61	24.90	-	-	-	-	-	-
			0.430	10.92	18.71	8.49	27.84	-	-	-	-	-	-
			0.500	12.70	21.38	9.70	31.82	-	-	-	-	-	-

PRODUCTS - API 5CT Casing

Size	Outside Diameter		Wall Thickness		Weight						Hydrostatic Test Pressure(psi)					
					Plain ends			Threads and Couplings (Non-Upset)			H40		J55/K55		N80	
	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m	Std.	Alt.	Std.	Alt.	Std.	Alt.
4-1/2	4.500	114.30	0.205	5.21	9.41	4.27	14.02	9.50	4.31	14.14	2900	-	4000	-	-	-
			0.224	5.69	10.24	4.64	15.24	10.50	4.76	15.63	-	-	4400	-	-	-
			0.250	6.35	11.36	5.15	16.91	11.60	5.26	17.26	-	-	4900	-	7100	-
			0.290	7.37	13.05	5.92	19.44	13.50	6.12	20.09	-	-	5700	-	8200	-
			0.337	8.56	15.00	6.80	22.32	-	-	-	-	-	-	-	-	-
5-1/2	5.500	139.70	0.244	6.20	13.71	6.22	20.41	14.00	6.35	20.83	2800	-	3900	-	-	-
			0.275	6.98	15.36	6.97	22.85	15.50	7.03	23.07	-	-	4400	-	-	-
			0.304	7.72	16.89	7.66	25.13	17.00	7.71	25.30	-	-	4900	-	7100	-
			0.361	9.17	19.83	8.99	29.52	20.00	9.07	29.76	-	-	5800	-	8400	-
			0.415	10.54	22.56	10.23	33.57	23.00	10.43	34.23	-	-	-	-	9700	-
			0.500	12.70	26.72	12.12	39.78	-	-	-	-	-	-	-	-	-
6-5/8	6.625	168.28	0.288	7.32	19.51	8.85	29.06	20.00	9.07	29.76	2800	-	3800	-	-	-
			0.352	8.94	23.60	10.70	35.13	24.00	10.89	35.72	-	-	4700	-	6800	-
			0.417	10.59	27.67	12.55	41.18	28.00	12.70	41.67	-	-	5500	-	8100	-
			0.475	12.06	31.23	14.17	46.46	32.00	14.52	47.62	-	-	-	-	9200	-
7	7.000	177.80	0.231	5.87	16.72	7.58	24.89	17.00	7.71	25.30	2100	-	-	-	-	-
			0.272	6.91	19.56	8.87	29.12	20.00	9.07	29.76	2500	-	3400	-	-	-
			0.317	8.05	22.65	10.27	33.70	23.00	10.43	34.23	-	-	4000	-	5800	-
			0.362	9.19	25.69	11.65	38.21	26.00	11.79	38.69	-	-	4600	-	6600	-
			0.408	10.36	28.75	13.04	42.78	29.00	13.15	43.16	-	-	-	-	7500	-
			0.453	11.51	31.70	14.38	47.20	32.00	14.52	47.62	-	-	-	-	8300	-
			0.498	12.65	34.61	15.70	51.52	35.00	15.88	52.09	-	-	-	-	9100	-
			0.540	13.72	37.29	16.91	55.52	38.00	17.24	56.55	-	-	-	-	9900	-
			0.625	15.88	42.59	19.32	63.41	-	-	-	-	-	-	-	-	-
			0.687	17.45	46.36	21.03	69.01	-	-	-	-	-	-	-	-	-
			0.750	19.05	50.11	22.73	74.58	-	-	-	-	-	-	-	-	-
7-5/8	7.625	193.68	0.300	7.62	23.49	10.65	34.96	24.00	10.89	35.72	2500	-	-	-	-	-
			0.328	8.33	25.59	11.61	38.08	26.40	11.98	39.29	-	-	3800	-	5500	-
			0.375	9.52	29.06	13.18	43.24	29.70	13.47	44.20	-	-	-	-	6300	-
			0.430	10.92	33.07	15.00	49.22	33.70	15.29	50.15	-	-	-	-	7200	-
			0.500	12.70	38.08	17.27	56.68	39.00	17.69	58.04	-	-	-	-	8400	-
			0.562	14.27	42.43	19.25	63.14	42.80	19.41	63.69	-	-	-	-	9400	-
			0.595	15.11	44.71	20.28	66.54	45.30	20.55	67.41	-	-	-	-	10000	-
			0.625	15.88	46.77	21.21	69.63	47.10	21.36	70.09	-	-	-	-	10000	-
			0.687	17.45	50.95	23.11	75.84	-	-	-	-	-	-	-	-	-
			0.750	19.05	55.12	25.00	82.04	-	-	-	-	-	-	-	-	-

Size	Outside Diameter		Wall Thickness		Weight						Hydrostatic Test Pressure(psi)					
					Plain ends			Threads and Couplings (Non-Upset)			H40		J55/K55		N80	
	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m	Std.	Alt.	Std.	Alt.	Std.	Alt.
8-5/8	8.625	219.08	0.264	6.71	23.60	10.70	35.14	24.00	10.89	35.72	-	-	2700	-	-	-
			0.304	7.72	27.04	12.27	40.24	28.00	12.70	41.67	2300	-	-	-	-	-
			0.352	8.94	31.13	14.12	46.33	32.00	14.52	47.62	2600	-	3600	-	-	-
			0.400	10.16	35.17	15.95	52.35	36.00	16.33	53.57	-	-	4100	-	5900	-
			0.450	11.43	39.33	17.84	58.53	40.00	18.14	59.53	-	-	-	-	6700	-
			0.500	12.70	43.43	19.70	64.64	44.00	19.96	65.48	-	-	-	-	7400	-
			0.557	14.15	48.04	21.79	71.51	49.00	22.23	72.92	-	-	-	-	8300	-
9-5/8	9.625	244.48	0.312	7.92	31.06	14.09	46.20	32.30	14.65	48.07	2100	-	-	-	-	-
			0.352	8.94	34.89	15.83	51.93	36.00	16.33	53.57	2300	-	3200	-	-	-
			0.395	10.03	38.97	17.68	57.99	40.00	18.14	59.53	-	-	3600	-	5300	-
			0.435	11.05	42.73	19.38	63.61	43.50	19.73	64.74	-	-	-	-	5800	-
			0.472	11.99	46.18	20.95	68.75	47.00	21.32	69.94	-	-	-	-	6300	-
			0.545	13.84	52.90	23.99	78.72	53.50	24.27	79.62	-	-	-	-	7200	-
			0.595	15.11	57.44	26.05	85.47	58.40	26.49	86.91	-	-	-	-	7900	-
			0.609	15.47	58.70	26.63	87.37	-	-	-	-	-	-	-	-	-
			0.672	17.07	64.32	29.17	95.73	-	-	-	-	-	-	-	-	-
			0.734	18.64	69.76	31.64	103.82	-	-	-	-	-	-	-	-	-
10-3/4	10.750	273.05	0.279	7.09	31.23	14.17	46.50	32.75	14.86	48.74	1200	1700	-	-	-	-
			0.350	8.89	38.91	17.65	57.91	40.50	18.37	60.27	1600	2100	2100	2900	-	-
			0.400	10.16	44.26	20.08	65.87	45.50	20.64	67.71	-	-	2500	3300	-	-
			0.450	11.43	49.55	22.48	73.75	51.00	23.13	75.90	-	-	2800	3700	5400	-
			0.495	12.57	54.26	24.61	80.75	55.50	25.17	82.59	-	-	-	-	5900	-
			0.545	13.84	59.45	26.97	88.47	-	-	-	-	-	-	-	-	-
			0.595	15.11	64.59	29.30	96.12	-	-	-	-	-	-	-	-	-
			0.672	17.07	72.40	32.84	107.76	-	-	-	-	-	-	-	-	-
			0.734	18.64	78.59	35.65	116.95	-	-	-	-	-	-	-	-	-
13-3/8	13.375	339.72	0.330	8.38	46.02	20.87	68.48	48.00	21.77	71.43	1200	1600	-	-	-	-
			0.380	9.65	52.79	23.95	78.55	54.50	24.72	81.11	-	-	1900	2500	-	-
			0.430	10.92	59.50	26.99	88.55	61.00	27.67	90.78	-	-	2100	2800	-	-
			0.480	12.19	66.17	30.01	98.46	68.00	30.84	101.20	-	-	2400	3200	4600	-
			0.514	13.06	70.67	32.06	105.21	72.00	32.66	107.15	-	-	-	-	4900	-
16	16.000	406.40	0.375	9.53	62.64	28.41	96.73	65.00	29.48	96.73	1100	1500	-	-	-	-
			0.438	11.13	72.86	33.05	108.49	75.00	34.02	111.61	-	-	1800	2400	-	-
			0.495	12.57	82.05	37.22	122.09	84.00	38.10	125.01	-	-	2000	2700	-	-
			0.656	16.66	107.60	48.81	160.13	109.00	49.44	162.21	-	-	2700	3600	5200	-

PRODUCTS - API 5L Line Pipe

Size	Outside Diameter		Wall Thickness		Weight		
	in	mm	in	mm	lb/ft	kg/ft	kg/m
1.050	1.050	26.7	0.154	3.9	1.48	0.67	2.19
1.315	1.315	33.4	0.133	3.4	1.68	0.76	2.52
			0.179	4.5	2.17	0.98	3.21
1.660	1.660	42.2	0.140	3.6	2.27	1.03	3.43
			0.191	4.9	3.00	1.36	4.51
1.900	1.900	48.3	0.145	3.7	2.72	1.23	4.07
			0.200	5.1	3.63	1.65	5.43
2-3/8	2.375	60.3	0.125	3.2	3.01	1.37	4.51
			0.141	3.6	3.37	1.53	5.03
			0.154	3.9	3.66	1.66	5.42
			0.172	4.4	4.05	1.84	6.07
			0.188	4.8	4.40	2.00	6.57
			0.218	5.5	5.03	2.28	7.43
			0.250	6.4	5.68	2.58	8.51
			0.281	7.1	6.29	2.85	9.31
			0.436	11.1	9.04	4.10	13.47
2-7/8	2.875	73.0	0.125	3.2	3.67	1.66	5.51
			0.141	3.6	4.12	1.87	6.16
			0.156	4.0	4.53	2.05	6.81
			0.172	4.4	4.97	2.25	7.44
			0.188	4.8	5.40	2.45	8.07
			0.203	5.2	5.80	2.63	8.69
			0.216	5.5	6.14	2.79	9.16
			0.250	6.4	7.02	3.18	10.51
			0.276	7.0	7.67	3.48	11.39
3-1/2	3.500	88.9	0.125	3.2	4.51	2.05	6.76
			0.141	3.6	5.06	2.30	7.57
			0.156	4.0	5.58	2.53	8.37
			0.172	4.4	6.12	2.78	9.17
			0.188	4.8	6.66	3.02	9.95
			0.216	5.5	7.58	3.44	11.31
			0.250	6.4	8.69	3.94	13.02
			0.281	7.1	9.67	4.39	14.32
			0.300	7.6	10.26	4.65	15.24
4.000	4.000	101.6	0.141	3.6	5.82	2.64	8.70
			0.156	4.0	6.41	2.91	9.63
			0.172	4.4	7.04	3.19	10.55
			0.188	4.8	7.66	3.47	11.46
			0.226	5.7	9.12	4.14	13.48
			0.250	6.4	10.02	4.55	15.02
			0.281	7.1	11.17	5.07	16.55
			0.318	8.1	12.52	5.68	18.68

Size	Outside Diameter		Wall Thickness		Weight		
	in	mm	in	mm	lb/ft	kg/ft	kg/m
4-1/2	4.500	114.3	0.141	3.6	6.57	2.98	9.83
			0.156	4.0	7.24	3.28	10.88
			0.172	4.4	7.96	3.61	11.92
			0.188	4.8	8.67	3.93	12.96
			0.203	5.2	9.32	4.23	13.99
			0.219	5.6	10.02	4.55	15.01
			0.237	6.0	10.80	4.90	16.02
			0.250	6.4	11.36	5.15	17.03
			0.281	7.1	12.67	5.75	18.77
			0.312	7.9	13.97	6.34	20.73
			0.337	8.6	15.00	6.80	22.42
			0.438	11.1	19.02	8.63	28.25
			0.531	13.5	22.53	10.22	33.56
5-9/16	5.563	141.3	0.156	4.0	9.02	4.09	13.54
			0.188	4.8	10.80	4.90	16.16
			0.219	5.6	12.51	5.67	18.74
			0.258	6.6	14.63	6.64	21.92
			0.281	7.1	15.87	7.20	23.50
			0.312	7.9	17.51	7.94	25.99
			0.344	8.7	19.19	8.70	28.45
			0.375	9.5	20.80	9.43	30.88
			0.500	12.7	27.06	12.27	40.28
6-5/8	6.625	168.3	0.141	3.6	9.77	4.43	14.62
			0.156	4.0	10.79	4.89	16.21
			0.172	4.4	11.87	5.38	17.78
			0.188	4.8	12.94	5.87	19.35
			0.203	5.2	13.94	6.32	20.91
			0.219	5.6	15.00	6.80	22.47
			0.250	6.4	17.04	7.73	25.55
			0.280	7.1	18.99	8.61	28.22
			0.312	7.9	21.06	9.55	31.25
			0.344	8.7	23.10	10.48	34.24
			0.375	9.5	25.05	11.36	37.20
			0.432	11.0	28.60	12.97	42.67
			0.500	12.7	32.74	14.85	48.73
			0.562	14.3	36.43	16.52	54.31
			0.625	15.9	40.09	18.18	59.76

PRODUCTS - API 5L Line Pipe

Size	Outside Diameter		Wall Thickness		Weight		
	in	mm	in	mm	lb/ft	kg/ft	kg/m
8-5/8	8.625	219.1	0.188	4.8	16.96	7.69	25.37
			0.203	5.2	18.28	8.29	27.43
			0.219	5.6	19.68	8.93	29.48
			0.250	6.4	22.38	10.15	33.57
			0.277	7.0	24.72	11.21	36.61
			0.312	7.9	27.73	12.58	41.14
			0.322	8.2	28.58	12.96	42.65
			0.344	8.7	30.45	13.81	45.14
			0.375	9.5	33.07	15.00	49.10
			0.438	11.1	38.33	17.39	56.94
			0.500	12.7	43.43	19.70	64.64
			0.562	14.3	48.44	21.97	72.22
			0.625	15.9	53.45	24.24	79.67
			0.719	18.3	60.77	27.57	90.62
			0.750	19.1	63.14	28.64	94.20
10-3/4	10.750	273.1	0.188	4.8	21.23	9.63	31.76
			0.203	5.2	22.89	10.38	34.35
			0.219	5.6	24.65	11.18	36.94
			0.250	6.4	28.60	12.97	42.09
			0.279	7.1	31.23	14.17	46.57
			0.307	7.8	34.27	15.54	51.03
			0.344	8.7	38.27	17.36	56.72
			0.365	9.3	40.52	18.38	60.50
			0.438	11.1	48.28	21.90	71.72
			0.500	12.7	54.79	24.85	81.55
			0.562	14.3	61.21	27.76	91.26
			0.625	15.9	67.65	30.69	100.85
			0.719	18.3	77.10	34.97	114.99
12-3/4	12.750	323.9	0.219	5.6	29.34	13.31	43.96
			0.250	6.4	33.41	15.15	50.11
			0.281	7.1	37.46	16.99	55.47
			0.312	7.9	41.48	18.82	61.56
			0.330	8.4	43.81	19.87	65.35
			0.344	8.7	45.62	20.69	67.62
			0.375	9.5	49.61	22.50	73.65
			0.406	10.3	53.57	24.30	79.65
			0.438	11.1	57.65	26.15	85.62
			0.500	12.7	65.48	29.70	97.46
			0.562	14.3	73.22	33.21	109.18
			0.625	15.9	81.01	36.75	120.76
			0.688	17.5	88.71	40.24	132.23
			0.750	19.1	96.21	43.64	143.56

Size	Outside Diameter		Wall Thickness		Weight		
	in	mm	in	mm	lb/ft	kg/ft	kg/m
14	14.000	355.6	0.250	6.4	36.75	16.67	55.11
			0.281	7.1	41.21	18.69	61.02
			0.312	7.9	45.65	20.71	67.74
			0.344	8.7	50.22	22.78	74.42
			0.375	9.5	54.62	24.78	81.08
			0.406	10.3	59.00	26.76	87.71
			0.438	11.1	63.50	28.80	94.30
			0.469	11.9	67.84	30.77	100.86
			0.500	12.7	72.16	32.73	107.39
			0.562	14.3	80.73	36.62	120.36
			0.625	15.9	89.36	40.53	133.19
			0.688	17.5	97.91	44.41	145.91
			0.750	19.1	106.23	48.19	158.49
16	16.000	406.4	0.250	6.4	42.09	19.09	63.13
			0.281	7.1	47.22	21.42	69.91
			0.312	7.9	52.32	23.73	77.63
			0.344	8.7	57.57	26.11	85.32
			0.375	9.5	62.64	28.41	92.98
			0.406	10.3	67.68	30.70	100.61
			0.438	11.1	72.86	33.05	108.20
			0.469	11.9	77.87	35.32	115.77
			0.500	12.7	82.85	37.58	122.30
			0.562	14.3	92.75	42.07	138.27
			0.625	15.9	102.72	46.59	153.11
			0.688	17.5	112.62	51.08	167.83
			0.750	19.1	122.27	55.46	182.42

Hydrostatic Test Pressure, P, expressed in megapascals(product per square inch), for plain-end shall be determined using Equation with the result rounded to the nearest 0.1MPa(10psi)

$$P = \frac{2St}{D}$$

where

S is the hoop stress, expressed in megapascals(pounds per squre inch), equal to a percentage of the specified minimim yield strength of the pipe, as given in Table 26;

t is the specified wall thickness, expressed in millimetres(inches);

D is the specified outside diameter, expressed in millimetres(inches)

Percentage of specified minimum yield strength for determination of S

Pipe grade	Specified outside diameter D	Percentage of specified minimum yield strength for determination of S	
	mm(in)	Standard test pressure	Alternative test pressure
L210 or A	any	60[a]	75[a]
L245 or B	any	60[a]	75[a]
L290 or X42 to L830 or X120	≤141.3(5.563)	60[a]	75[c]
	>141.3(5.563) to ≤219.1(8.625)	75[b]	75[c]
	>219.1(8.625) to <508(20.000)	85[b]	85[c]
	≥508(20.000)	90[b]	90[c]

a For D≤88.9mm(3.500 in), it is not necessary that the test pressure exceed 17.0 Mpa(2470 psi); for D>88.9mm(3.500 in), it is not necessary that the test pressure exceed 19.0 Mpa(2760 psi)

b It is not necessary that the test pressure exceed 20.5MPa(2970 psi).

c For D≤406.4 mm(16.000 in), it is not necessary that the test pressure exceed 50.0 Mpa(7260 psi); for D>406.4 mm (16.000 in), it is not necessary that the test pressure exceed 25.0 Mpa(3630 psi).

For Example

1 Spec & Size : API 5L X42 4-1/2"x0.083"

$$P = \frac{2St}{D} = \frac{2x0.6(\%)x42100(psi)x2.1(mm)}{114.3mm} = 930psi$$

Nominal Size	Outside Diameter		Wall Thickness			Nominal Weight			Hydrostatic Test Pressure			
									Grade A		Grade B	
	in	mm	in	mm	Schedule No.	lb/ft	kg/ft	kg/m	psi	kPa	psi	kPa
3/4	1.050	26.7	0.154	3.91	80(XS)	1.48	0.67	2.20	850	5900	850	5900
			0.219	5.56	160	1.95	0.88	2.90	950	6500	950	6500
1	1.315	33.4	0.133	3.38	40(STD)	1.68	0.76	2.50	700	4800	700	4800
			0.179	4.55	80(XS)	2.17	0.98	3.24	850	5900	850	5900
			0.250	6.35	160	2.85	1.29	4.24	950	6500	950	6500
1 1/4	1.660	42.2	0.140	3.56	40(STD)	2.27	1.03	3.39	1200	8300	1300	9000
			0.191	4.85	80(XS)	3.00	1.36	4.47	1800	12400	1900	13100
			0.250	6.35	160	3.77	1.71	5.61	1900	13100	2000	13800
1 1/2	1.900	48.3	0.145	3.68	40(STD)	2.72	1.23	4.05	1200	8300	1300	9000
			0.200	5.08	80(XS)	3.63	1.65	5.41	1800	12400	1900	13100
			0.281	7.14	160	4.86	2.20	7.25	1950	13400	2050	14100
2	2.375	60.3	0.154	3.91	40(STD)	3.66	1.66	5.44	2300	15900	2500	17200
			0.218	5.54	80(XS)	5.03	2.28	7.48	2500	17200	2500	17200
			0.344	8.74	160	7.47	3.39	11.11	2500	17200	2500	17200
			0.436	11.07	XXS	9.04	4.10	13.44	2500	17200	2500	17200
2 1/2	2.875	73.0	0.203	5.16	40(STD)	5.80	2.63	8.63	2500	17200	2500	17200
			0.276	7.01	80(XS)	7.67	3.48	11.41	2500	17200	2500	17200
			0.375	9.52	160	10.02	4.54	14.90	2500	17200	2500	17200
3	3.500	88.9	0.125	3.18	-	4.51	2.05	6.72	1290	8900	1500	1000
			0.156	3.96	-	5.58	2.53	8.29	1600	11000	1870	12900
			0.188	4.78	-	6.66	3.02	9.92	1930	13330	2260	15600
			0.216	5.49	40(STD)	7.58	3.44	11.29	2220	15300	2500	17200
			0.250	6.35	-	8.69	3.94	12.93	2500	17200	2500	17200
			0.281	7.14	-	9.67	4.39	14.40	2500	17200	2500	17200
			0.300	7.62	80(XS)	10.26	4.65	15.27	2500	17200	2500	17200
			0.438	11.13	160	14.34	6.50	21.35	2500	17200	2500	17200
3-1/2	4.000	101.6	0.156	3.96	-	6.41	2.91	9.53	1400	9700	1640	11300
			0.188	4.78	-	7.66	3.47	11.41	1690	11700	1970	13600
			0.226	5.74	40(STD)	9.12	4.14	13.57	2030	14000	2370	16300
			0.250	6.35	-	10.02	4.54	14.92	2250	15500	2500	17200
			0.281	7.14	-	11.17	5.07	16.63	2500	17200	2500	17200
			0.318	8.08	80(XS)	12.52	5.68	18.63	2800	19300	2800	19300
4	4.500	114.3	0.156	3.96	-	7.24	3.28	10.78	1250	8600	1460	10100
			0.188	4.78	-	8.67	3.93	12.91	1500	10300	1750	12100
			0.219	5.56	-	10.02	4.54	14.91	1750	12100	2040	14100
			0.237	6.02	40(STD)	10.80	4.90	16.07	1900	13100	2210	15200
			0.250	6.35	-	11.36	5.15	16.90	2000	13800	2330	16100
			0.281	7.14	-	12.67	5.75	18.87	2250	15100	2620	18100
			0.312	7.92	-	13.97	6.34	20.78	2500	17200	2800	19300
			0.337	8.56	80(XS)	15.00	6.80	22.32	2700	18600	2800	19300
			0.438	11.13	120	19.02	8.63	28.32	2800	19300	2800	19300
			0.531	13.49	160	22.53	10.22	33.54	2800	19300	2800	19300

PRODUCTS - ASTM A53 Carbon Steel Pipes for Ordingary Piping

Nominal Size	Outside Diameter		Wall Thickness			Nominal Weight			Hydrostatic Test Pressure			
									Grade A		Grade B	
	in	mm	in	mm	Schedule No.	lb/ft	kg/ft	kg/m	psi	kPa	psi	kPa
5	5.563	141.3	0.156	3.96	-	9.02	4.09	13.41	1010	7000	1180	8100
			0.188	4.78	-	10.80	4.90	16.09	1220	8400	1420	9800
			0.219	5.56	-	12.51	5.67	18.61	1420	9800	1650	11400
			0.258	6.55	40(STD)	14.63	6.64	21.77	1670	11500	1950	13400
			0.281	7.14	-	15.87	7.20	23.62	1820	12500	2120	14600
			0.312	7.92	-	17.51	7.94	26.05	2020	13900	2360	16300
			0.344	8.74	-	19.19	8.70	28.57	2230	15400	2600	17900
			0.375	9.52	80(XS)	20.80	9.43	30.94	2430	16800	2800	19300
			0.500	12.70	120	27.06	12.27	40.28	2800	19300	2800	19300
6	6.625	168.3	0.188	4.78	-	12.94	5.87	19.27	1020	7000	1190	8200
			0.219	5.56	-	15.00	6.80	22.31	1190	8200	1390	9600
			0.250	6.35	-	17.04	7.73	25.36	1360	9400	1580	10900
			0.280	7.11	40(STD)	18.99	8.61	28.26	1520	10500	1780	12300
			0.312	7.92	-	21.06	9.55	31.32	1700	11700	1980	13700
			0.344	8.74	-	23.10	10.48	34.39	1870	12900	2180	15000
			0.375	9.52	-	25.05	11.36	37.28	2040	14100	2380	16400
			0.432	10.97	80(XS)	28.60	12.97	42.56	2350	16200	2740	18900
			0.562	14.27	120	36.43	16.52	54.20	2800	19300	2800	19300
8	8.625	219.1	0.188	4.78	-	16.96	7.69	25.26	780	5400	920	6300
			0.203	5.16	-	18.28	8.29	27.22	850	5900	1000	6900
			0.219	5.56	-	19.68	8.93	29.28	910	6300	1070	7400
			0.250	6.35	20	22.38	10.15	33.31	1040	7200	1220	8400
			0.277	7.04	30	24.72	11.21	36.31	1160	7800	1350	9300
			0.312	7.92	-	27.73	12.58	41.24	1300	9000	1520	10500
			0.322	8.18	40(STD)	28.58	12.96	42.55	1340	9200	1570	10800
			0.344	8.74	-	30.45	13.81	45.34	1440	9900	1680	11600
			0.375	9.52	-	33.07	15.00	49.20	1570	10800	1830	12600
			0.406	10.31	60	35.67	16.18	53.08	1700	11700	2000	13800
			0.438	11.13	-	38.33	17.39	57.08	1830	12600	2130	14700
			0.500	12.70	80(XS)	43.43	19.70	64.64	2090	14400	2430	16800
			0.594	15.09	100	51.00	23.13	75.92	2500	17200	2800	19300
			0.719	18.26	120	60.77	27.56	90.44	2800	19300	2800	19300
10	10.750	273.0	0.188	4.78	-	21.23	9.63	31.62	630	4300	730	5000
			0.203	5.16	-	22.89	10.38	34.08	680	4700	800	5500
			0.219	5.56	-	24.65	11.18	36.67	730	5000	860	5900
			0.250	6.35	20	28.06	12.73	41.75	840	5800	980	6800
			0.279	7.09	-	31.23	14.17	46.49	930	6400	1090	7500
			0.307	7.80	30	34.27	15.54	51.01	1030	7100	1200	8300
			0.344	8.74	-	38.27	17.36	56.96	1150	7900	1340	9200
			0.356	9.27	40(STD)	40.52	18.38	60.29	1220	8400	1430	9900
			0.438	11.13	-	48.28	21.90	71.87	1470	10100	1710	11800
			0.500	12.70	60(XS)	54.79	24.85	81.52	1670	11500	1950	13400
			0.594	15.09	80	64.49	29.25	95.97	1990	13700	2320	16000
			0.719	18.26	100	77.10	34.97	114.70	2410	16600	2800	19300

Nominal Size	Outside Diameter		Wall Thickness			Nominal Weight			Hydrostatic Test Pressure			
									Grade A		Grade B	
	in	mm	in	mm	Schedule No.	lb/ft	kg/ft	kg/m	psi	kPa	psi	kPa
12	12.750	323.8	0.219	5.56	-	29.34	13.31	43.63	620	4300	720	5000
			0.250	6.35	20	33.41	15.15	49.71	710	4900	820	5700
			0.281	7.14	-	37.46	16.99	55.75	790	5400	930	6400
			0.312	7.92	-	41.48	18.81	61.69	880	6100	1030	7100
			0.330	8.38	30	43.81	19.87	65.18	930	6400	1090	7500
			0.344	8.74	-	45.62	20.69	67.90	970	6700	1130	7800
			0.375	9.52	STD	49.61	22.50	73.78	1060	7300	1240	8500
			0.406	10.31	40	53.57	24.30	79.70	1150	7900	1340	9200
			0.438	11.13	-	57.65	26.15	85.82	1240	8500	1440	9900
			0.500	12.70	XS	65.48	29.70	97.43	1410	9700	1650	11400
			0.562	14.27	60	73.22	33.21	108.92	1590	11000	1850	12800
			0.688	17.48	80	88.71	40.24	132.04	1940	13400	2270	15700
14	14.000	355.6	0.250	6.35	10	36.75	16.67	54.69	640	4400	750	5200
			0.281	7.14	-	41.21	18.69	61.35	720	5000	840	5800
			0.312	7.92	20	45.65	20.71	67.90	800	5500	940	6500
			0.344	8.74	-	50.22	22.78	74.76	880	6100	1030	7100
			0.375	9.52	30(STD)	54.62	24.78	81.25	960	6600	1120	7700
			0.438	11.13	40	63.50	28.80	94.55	1130	7800	1310	9000
			0.469	11.91	-	67.84	30.77	100.94	1210	8300	1410	9700
			0.500	12.70	XS	72.16	32.73	107.39	1290	8900	1500	10300
			0.594	15.09	60	85.13	38.61	126.71	1530	10500	1790	12300
			0.750	19.05	80	106.23	48.18	158.10	1930	13300	2250	15500
16	16.000	406.4	0.250	6.35	10	42.09	19.09	62.64	560	3900	660	4500
			0.281	7.14	-	47.22	21.42	70.30	630	4300	740	5100
			0.312	7.92	20	52.32	23.73	77.83	700	4800	820	5700
			0.344	8.74	-	57.57	26.11	85.71	770	5300	900	6200
			0.375	9.52	30(STD)	62.64	28.41	93.17	840	5800	980	6800
			0.438	11.13	-	72.86	33.05	108.49	990	6800	1150	7900
			0.469	11.91	-	77.87	35.32	115.86	1060	7300	1230	8500
			0.500	12.70	40(XS)	82.85	37.58	123.30	1120	7700	1310	9000
			0.656	16.66	60	107.60	48.81	160.12	1480	10200	1720	11900

Round

Nominal Size	Outside Diameter		Wall Thickness		Calculated Nominal Weight		
	inch	mm	inch	mm	lb/ft	kg/ft	kg/m
1	1.315	33.4	0.104	2.64	1.34	0.61	2.00
	1.315	33.4	0.133	3.38	1.68	0.76	2.50
	1.315	33.4	0.179	4.55	2.17	0.98	3.24
1 1/4	1.660	42.2	0.110	2.79	1.81	0.82	2.71
	1.660	42.2	0.140	3.56	2.27	1.03	3.39
	1.660	42.2	0.191	4.85	3.00	1.36	4.47
1 1/2	1.900	48.3	0.114	2.90	2.17	0.98	3.25
	1.900	48.3	0.145	3.68	2.72	1.23	4.05
	1.900	48.3	0.200	5.08	3.63	1.65	5.41
2	2.375	60.3	0.121	3.07	2.91	1.32	4.33
	2.375	60.3	0.154	3.91	3.65	1.66	5.44
	2.375	60.3	0.218	5.54	5.02	2.28	7.48
2 1/2	2.875	73.0	0.156	3.96	4.53	2.05	6.74
	2.875	73.0	0.188	4.78	5.40	2.45	8.04
	2.875	73.0	0.203	5.16	5.79	2.63	8.63
	2.875	73.0	0.276	7.01	7.66	3.47	11.41
3	3.500	88.9	0.156	3.96	5.57	2.53	8.29
	3.500	88.9	0.188	4.78	6.65	3.02	9.92
	3.500	88.9	0.216	5.49	7.58	3.44	11.29
	3.500	88.9	0.300	7.62	10.25	4.65	15.27
3 1/2	4.000	101.6	0.156	3.96	6.40	2.90	9.53
	4.000	101.6	0.188	4.78	7.65	3.47	11.41
	4.000	101.6	0.226	5.74	9.11	4.13	13.57
	4.000	101.6	0.318	8.08	12.50	5.67	18.63
4	4.500	114.3	0.156	3.96	7.24	3.28	10.78
	4.500	114.3	0.188	4.78	8.66	3.93	12.91
	4.500	114.3	0.219	5.56	10.01	4.54	14.91
	4.500	114.3	0.237	6.02	10.79	4.89	16.07
	4.500	114.3	0.337	8.56	14.98	6.79	22.32
5	5.563	141.3	0.258	6.55	14.62	6.63	21.77
	5.563	141.3	0.375	9.53	20.78	9.43	30.97
6	6.625	168.3	0.280	7.11	18.97	8.60	28.26
	6.625	168.3	0.432	10.97	28.57	12.96	42.56
8	8.625	219.1	0.322	8.18	28.55	12.95	42.55
	8.625	219.1	0.500	12.70	43.39	19.68	64.64
10	10.750	273.0	0.365	9.27	40.48	18.36	60.31
	10.750	273.0	0.500	12.70	54.74	24.83	81.55
12	12.750	323.8	0.375	9.53	49.56	22.48	73.88
	12.750	323.8	0.500	12.70	65.42	29.67	97.46
14	14.000	355.6	0.375	9.53	54.57	24.75	81.33
	14.000	355.6	0.500	12.70	72.09	32.70	107.39
16	16.000	406.4	0.375	9.53	62.58	28.39	93.27
	16.000	406.4	0.500	12.70	82.77	37.54	123.30

Square

Outside Diameter		Wall Thickness		Calculated Nominal Weight		
inch	mm	inch	mm	lb/ft	kg/ft	kg/m
2" x 2"	50.8 x 50.8	0.110	2.79	2.96	1.22	4.00
		0.125	3.18	3.04	1.38	4.52
		0.154	3.91	3.65	1.66	5.44
3" x 3"	76.2 x 76.2	0.156	3.96	5.78	2.62	8.60
		0.188	4.78	6.86	3.11	10.21
3-1/2" x 3-1/2"	88.9 x 88.9	0.156	3.96	6.88	3.12	10.24
		0.188	4.78	8.14	3.69	12.11
4" x 4"	101.6 x 101.6	0.188	4.78	9.31	4.22	13.85
5" x 5"	127.0 x 127.0	0.188	4.78	11.86	5.38	17.65
		0.250	6.35	15.42	6.99	22.94
6" x 6"	152.4 x 152.4	0.188	4.78	14.41	6.54	21.44
		0.250	6.35	18.82	8.54	28.00
		0.312	7.92	23.02	10.44	34.25
		0.375	9.52	27.04	12.27	40.28
8" x 8"	203.2 x 203.2	0.250	6.35	25.44	11.54	37.85
		0.312	7.92	31.24	14.17	46.49
		0.375	9.52	36.83	16.71	54.80
		0.500	12.70	47.35	21.48	70.46
10" x 10"	254.0 x 254.0	0.250	6.35	32.23	14.62	47.96
		0.312	7.92	39.74	18.03	59.13
		0.375	9.52	47.03	21.33	69.98
		0.500	12.70	60.95	27.65	90.69

Rectangular

Outside Diameter		Wall Thickness		Calculated Nominal Weight		
inch	mm	inch	mm	lb/ft	kg/ft	kg/m
4" x 2"	101.6 x 50.8	0.156	3.96	5.78	2.62	8.60
		0.188	4.78	6.86	3.11	10.21
4" x 3"	101.6 x 76.2	0.156	3.96	6.88	3.12	10.24
		0.188	4.78	8.14	3.69	12.11
5" x 3"	127.0 x 76.2	0.188	4.78	9.31	4.22	13.85
6" x 3"	152.4 x 76.2	0.188	4.78	10.58	4.80	15.74
		0.250	6.35	13.72	6.22	20.42
6" x 4"	152.4 x 101.6	0.188	4.78	11.86	5.38	17.65
		0.250	6.35	15.42	6.99	22.94
7" x 5"	177.8 x 127.0	0.188	4.78	14.41	6.54	21.44
		0.250	6.35	18.82	8.54	28.00
		0.312	7.92	23.02	10.44	34.25
		0.375	9.52	27.04	12.27	40.28
8" x 4"	203.2 x 101.6	0.188	4.78	14.41	6.54	21.44
		0.250	6.35	18.82	8.54	28.00
		0.312	7.92	23.02	10.44	34.25
		0.375	9.52	27.04	12.27	40.28
10" x 6"	254.0 x 152.4	0.250	6.35	25.44	11.54	37.85
		0.312	7.92	31.24	14.17	46.49
		0.375	9.52	36.83	16.71	54.80
		0.500	12.70	47.35	21.48	70.46

*note - Othrer sizes than these listed in table shall be consistent with these given in this specification for similar sizes and type of product.