



YOUFA STEEL PIPE GROUP

TOP 500 ENTERPRISES OF CHINA INDUSTRY LEADING BRANDS

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TIANJIN YOUFA INTERNATIONAL TRADE CO., LTD



YOUFA STEEL PIPE GROUP

Youfa is the strongest welded steel pipe manufacturing group around China.



Brand "YOUFA" is the leading and outstanding brand in the industry.



Brand ZHENSJIMUAN is the growing champion in the industry.



北京钢铁集团大港外销
Appearance of Tangshan Youfa Steel Pipe Group



天津基地——第一分公司外销
Appearance of No. 1 Branch Company in Tangshan



唐山基地——唐山正兴钢管公司外销
Appearance of Tangshan Zhongmu Steel Pipe Co., Ltd. in Tangshan Base



邯郸基地——邯郸友发钢管公司外销
Appearance of Handan Youfa Steel Pipe Co., Ltd. in Handan Base

01-04	集团及企业简介 Group & Company Introduction
05-06	工艺流程图 Manufacture Procedures
07-30	产品介绍 Products Presentation
21-22	研发实验室及荣誉证书 Youfa Laboratory and Honor & Certificates
23-26	生产标准 Production Standard
29-36	美标规格明细 BS / EN Standards Specifications
37-48	美标规格明细 ASTM / API Standards Specifications
49-55	其它产品 Other Steel Products
56	友发集团员工合影及企业文化 Photo of Youfa International Trade Staff & Youfa Group Culture

Profile of the Group

Tianjin Youfa Steel Pipe Group Co., Ltd. was founded on July 1st, 2000, with the headquarters located at the largest steel pipe production base in China—Daoluzhuang Village, Tianjin City, and it is the largest steel pipe manufacturing enterprise producing many kinds of steel pipes, including ERW steel pipe, hot dipped galvanized steel pipe (Round, Square / Rectangular, Spiral), square and rectangular steel pipe, steel pipe of lining plastic, plastic-coated steel pipe, spiral steel pipe, highway materials and processing "Youfa" and "Zhengyiyuan" brands. Now it has formed three production bases in Tianjin, Tangshan and Handan, owns 9 steel pipe enterprises with a total of 152 production lines, 1 highway protecting plate factory, 1 waste acid and wastewater processing plant, nearly 10,000 employees, 2 approved national level laboratories and the only one industry-university-research R&D institution in the industry—"Tianjin Welded Steel Pipe Technology Engineering Center". Products produced by three production bases are sold to 100 countries and regions. It produced over 12 million tons of various steel pipes in 2016. In case of head-to-tail connection of steel pipes produced by Youfa every week, they will make a circuit of the earth. Youfa's production and sales volume have ranked No. 1 for consecutive 10 years in China. And it has ranked among top 500 enterprises in China and top 500 enterprises in China's manufacturing industry.

Quality is the life of the enterprise. Youfa strictly controls product quality by virtue of 5 links—raw material

link, equipment link, technology link, management link and inspection link. Youfa brand steel pipes have been successfully applied to Three Gorges Project, Pudong International Airport, Capital International Airport, Beijing Olympic Stadium, Shanghai World Expo Exhibition Hall, Jiaozhou Bay Cross-sea Bridge, the latest building in China—117 Building in Tianjin, Beijing-Zhangjiakou Olympic Winter Games stadium, Beijing Z15 Tower, Tian'anmen Parade Reviewing Stand, Shanghai Disneyland Park and other national priority projects. It has been recognized as No. 1 brand in the industry.

We Youfa are always taking "Going beyond ourselves, Making partners succeed, Realizing hundred years of Youfa and Creating harmony together" as vocation, and always holding fast the core value of "Honesty, Mutuality, Virtue and Partnership". Based on the cooperation with our partners, we will unwaveringly keep building Tianjin Youfa to be a respected and happy enterprise!

Youfa Steel Pipe, selling to and supporting the whole world!



Tianjin Youfa International Trade Co., Ltd

Tianjin Youfa International Trade Co., Ltd. was founded in March, 2010. It is a subsidiary of Youfa Steel Pipe Group. The company is located in 7th Floor, Guokou Building, Dafeng Road, Hongqiao District, Tianjin City. The office covers an area of 10000㎡. There are about 60 employees; among them more than 40 have CET-6 certificate and some even better. We company's annual sales of steel products are nearly 250,000,000 tons.

Adapting to the overall development strategy of Youfa Steel Pipe Group—approaching the world and serving globally—at the beginning of 2010, the Group established Tianjin Youfa International Trade Co., Ltd as the foreign trade window of Youfa Steel Pipe Group to be responsible for exportation and importation, and to be in charge of the exports and imports trade business, and the supply of materials to overseas projects for some large domestic enterprise. With several years of hard work, we have established expert business relationship with many big Transnational Enterprises. Based on the high quality and the considerate service, our products have set up a prominent brand image at home and abroad. The markets we serve mainly include: Middle & South America, the Southeast Asia, Middle East and Africa and so on, nearly covering 100 countries and regions. Hoping us obtaining a well-deserved reputation. We have built a long-term cooperation with many clients, and have received word of praise from customers all over the world.

Our products meet the following standards: AP5L3CT, ASTM A53A500, ASTM A795, EN10219-1/2/25, BS 1367, EN39, ISO616, DIN2440, JS G3446/3466, etc. and are approved by the Third Party. They are widely used in oil and natural gas, low pressure liquid and mineral powder delivery, and for industrial and



civil construction fields and for pipe field. Caring about the quality of products and services, possessing normative QAS, we have acquired certificates of AP5L3CT, ISO9001, ISO14001, ISO 18001, EN10219, FCC and ULFPM quality system.

In order to provide customers a more personalized service, we founded Tianjin Youfa Hongqiao Steel Pipe Manufacture Co., Ltd as processing factory, specially designed for our clients demands. It covers an area of 20,000 square meters. There are about 200 employees, 10 lathes, 7 cutting machines, 2 sets of grooving machine, 2 sets of automatic paint or oil production line. Be committed to meeting customers' various after-processing requirements.

Pursuing the "Customer first, Integrity first" principle, we are sincerely expecting to cooperate with you!

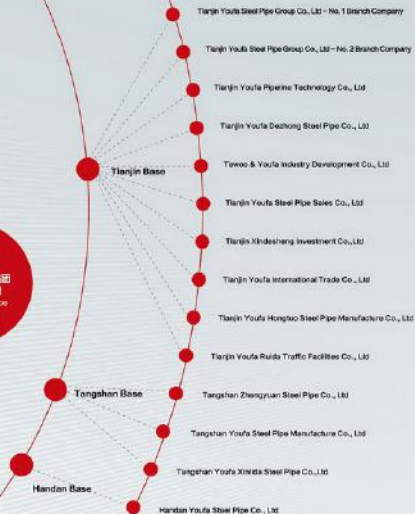
Organizational Structure



Chairman of
Youfa Steel Pipe Group: Li Maolin



CEO of
Youfa Steel Pipe Group: Yin Juxiang



TOP 500 ENTERPRISES OF CHINA
TEN MILLION TONS PRODUCTION CHINESE STEEL PIPE MANUFACTURER

TOP 500 ENTERPRISES OF CHINA'S
MANUFACTURING INDUSTRY
INDUSTRY PREFERRED BRAND

Electrical Resistance Weld Pipe - ERW

Manufacture Procedures



Hot-Dipped Galvanized Steel Pipe

Manufacture Procedures



Galvanized Steel Pipe of Lining Plastic

Manufacture Procedures





ERW Steel Pipe Production Line



ERW Steel Pipe Yard

ERW Steel Pipe

Size: DN15-600mm

Use: low pressure liquid delivery such as water, gas, air, oil and steam and for machine structural purpose

Manufacturer

Tianjin Youfa Steel Pipe Group Co., Ltd. - No.2 Branch Company

Tangshan Youfa Steel Pipe Manufacture Co., Ltd.

Tangshan Youfa Xinlida Steel Pipe Co., Ltd.

Tangshan Zhengyuan Steel Pipe Co., Ltd.

Handan Youfa Steel Pipe Co., Ltd.

Hot Dipped Galvanized Steel Pipe

Round Pipe:DN15-200mm
Square Pipe:200x200-300x300mm
Rectangular Pipe:20x40-100x200mm
Spiral Pipe:219-1420mm

Usage: delivery of low pressure liquid such as water, gas, air, steam for heating and for machine structural purposes

Manufacturer

Tianjin Youfa Steel Pipe Group Co., Ltd - No.1 Branch Company

Handan Youfa Steel Pipe Co., Ltd

Tangshan Zhengyuan Steel Pipe Co., Ltd

Tianjin Youfa Dezhong Steel Pipe Co., Ltd



Tangshan Zhengyuan Hot Dipped Galvanized Steel Pipe Yard



Hot Dipped Galvanized Square Pipe



Hot Dipped Galvanized Spiral Welded Steel Pipe



Hot Dipped Galvanized ERW Steel Pipe

Square /Rectangular Steel Pipe

Square Steel Pipe: 20x20-400x400mm
Rectangular Pipe: 25x40-300x500mm

Usage: steel structure, mechanical, manufacturing, construction, automobile manufacturing, shipbuilding, electricity and so on.

Manufacturer

Tianjin Youfa Dezhong Steel Pipe Co., Ltd.
Handan Youfa Steel Pipe Co., Ltd.



Square tube Production Line



Rectangular Tube Yard



Rectangular Tube



Square Tube

Steel Pipe of Lining Plastic

Size: DN15-300mm

Usage: high-level drinking water convey

Manufacturer

Tianjin Youfa Steel Pipe Group Co., Ltd.- No. 1 Branch Company.

Tangshan Zhengyuan Steel Pipe Co., Ltd.

Handan Youfa Steel Pipe Co., Ltd.



Steel Pipe of Lining Plastic for Cold Water



Steel Pipe of Lining Plastic for Hot Water



Steel Pipe of Lining Plastic Production Line



Plastic Coated Composite Pipe Production Workshop



Plastic Coated Steel Pipe Production Workshop

Plastic Coated Steel Pipe

Size: DN15-DN500

Usage: water supply- fire protection- wire and cable pipe- vent pipe

Manufacturer

Tianjin Youfa Pipeline Technology Co.,Ltd

Tianjin Youfa Steel Pipe Group Co., Ltd.- No. 1 Branch Company.

SSAW Steel Pipe

Specifications: Q219-Q300mm

Usage: the line pipe of petroleum - gas and delivery of low pressure liquid such as water - gas - oil - steam for heating and for piles and the construction field for structure

Manufacturer

Tianjin Youfa Pipeline Technology Co., Ltd.

Handan Youfa Steel Pipe Co., Ltd.



Spiral Steel Pipe Production Line



Spiral Steel Pipe Yard



3PE Spiral Steel Pipe

Solar Structure

C-profile with holes Square tube

Manufacturer

Tianjin Youfa Ruida Traffic Facilities Co., Ltd



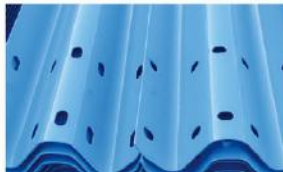
Square tube



Decouage Block Column Cap



Wave Beam Steel Guardrail



Spray Wave Beam Steel Guardrail



Round Steel Columns

Highway Materials

Wave beam steel guardrail steel column
decouage block column cap ends

Manufacturer

Tianjin Youfa Ruida Traffic Facilities Co., Ltd



Grooved with Caps

Processing Factory

Tianjin Youfa Hongtuo Steel Pipe Manufacture Co., Ltd



Cur in Short Length



PVC Wrapped



Oiled and PVC Wrapped



Threaded with Coupling



Painted

Youfa Laboratory and Quality Control



直接光谱仪
Direct reading spectrometer



落锤冲击试验机
Drop hammer impact test machine



快速氮硫测定仪
Fast nitrogen sulfur determination instrument



电子万能试验机
Electronic universal testing machine



维氏硬度计
Vickers hardness tester



盐雾试验箱
Salt spray test box

Honor & Certificates



BS EN 10255 Steel Tubes and Tubular Suitable for Screwing to BS EN 10226 Pipe Threads

Series	Nominal Size	Outside Diameter			Wall Thickness			Mean of Mean Tube			Series and Weight			
		DN	mm	mm	mm	mm	mm	mm	mm	mm				
L1	1/2	15	6.054	21.7	6.627	23.0	0.693	2.0	0.730	0.528	1.08	0.732	0.532	1.09
		3/8	20	1.067	37.1	1.039	35.4	0.695	2.0	0.841	0.627	1.4	0.847	0.630
	1 1/4	25	1.209	34.9	1.267	33.2	1.116	2.9	1.470	0.671	2.2	1.492	0.677	2.22
		32	1.891	54.7	1.899	49.8	1.116	2.9	1.899	0.892	2.84	1.913	0.899	2.85
	1 1/2	40	1.973	48.6	1.982	47.8	1.116	2.9	2.116	0.991	3.29	2.111	1.093	3.29
		2	2.780	60.7	2.746	56.8	1.105	3.2	3.091	1.173	4.51	3.018	1.296	4.58
	1 1/2	45	2.562	78.0	2.561	75.2	1.105	3.2	2.586	1.103	2.75	2.544	1.199	2.67
		3	3.492	98.7	3.481	97.9	1.130	3.2	3.442	1.060	3.76	3.467	1.152	3.93
	1 1/2	30	3.084	50.2	3.049	46.3	1.142	3.6	3.040	1.052	3.7	3.067	1.057	3.89
		4	4.084	113.9	4.049	111.0	1.142	3.6	4.008	1.066	4.167	3.978	1.211	4.22
	6	126	6.643	160.8	6.643	158.0	1.117	4.0	10.000	0.879	10	10.416	0.724	10.5
		6	160	6.555	166.5	6.643	163.6	1.117	4.5	11.861	0.965	12.8	12.266	0.818
L2	1/2	15	6.054	21.7	6.627	23.0	0.693	2.2	0.732	0.528	1.20	0.732	0.532	1.09
		3/8	20	1.067	37.1	1.039	35.4	0.695	2.2	0.894	0.624	1.30	0.841	0.627
	1	25	1.209	34.9	1.267	33.2	1.116	2.9	1.470	0.671	2.2	1.492	0.677	2.22
		1 1/4	32	1.891	54.7	1.899	49.8	1.116	2.9	1.899	0.892	2.82	1.913	0.899
	1 1/2	40	1.973	48.6	1.982	47.8	1.116	2.9	2.177	0.948	3.34	2.100	1.000	3.28
		2	2.780	60.7	2.746	56.8	1.105	3.2	3.017	1.169	4.49	3.064	1.260	4.50
	1 1/2	45	2.604	78.0	2.561	75.2	1.105	3.2	2.590	1.147	2.73	2.591	1.193	2.65
		3	3.492	98.7	3.481	97.9	1.130	3.2	3.492	1.201	3.66	3.498	1.266	3.77
	1 1/2	30	3.084	50.2	3.049	46.3	1.142	3.6	3.072	1.050	3.76	3.108	1.055	3.89
		4	4.084	113.9	4.049	111.0	1.142	3.6	4.008	1.066	4.167	3.978	1.211	4.22
	6	126	6.643	160.8	6.643	158.0	1.117	4.0	10.000	0.879	10	10.416	0.724	10.5
		6	160	6.555	166.5	6.643	163.6	1.117	4.5	11.861	0.965	12.8	12.266	0.818
L3	1/2	15	6.054	21.7	6.627	23.0	0.693	2.0	0.730	0.528	1.08	0.732	0.532	1.09
		3/8	20	1.067	37.1	1.039	35.4	0.695	2.0	0.841	0.627	1.4	0.847	0.630
	1	25	1.209	34.9	1.267	33.2	1.116	2.9	1.470	0.671	2.2	1.492	0.677	2.22
		1 1/4	32	1.891	54.7	1.899	49.8	1.116	2.9	1.899	0.892	2.82	1.913	0.899
	1 1/2	40	1.973	48.6	1.982	47.8	1.116	2.9	2.177	0.948	3.34	2.100	1.000	3.28
		2	2.780	60.7	2.746	56.8	1.105	3.2	3.017	1.169	4.49	3.064	1.260	4.50
	1 1/2	45	2.562	78.0	2.561	75.2	1.105	3.2	2.586	1.103	2.75	2.544	1.199	2.67
		3	3.492	98.7	3.481	97.9	1.130	3.2	3.442	1.060	3.76	3.467	1.152	3.93
	1 1/2	30	3.084	50.2	3.049	46.3	1.142	3.6	3.040	1.052	3.7	3.067	1.057	3.89
		4	4.084	113.9	4.049	111.0	1.142	3.6	4.008	1.066	4.167	3.978	1.211	4.22
	6	126	6.643	160.8	6.643	158.0	1.117	4.0	10.000	0.879	10	10.416	0.724	10.5
		6	160	6.555	166.5	6.643	163.6	1.117	4.5	11.861	0.965	12.8	12.266	0.818
H	1/2	15	6.054	21.7	6.627	23.0	0.693	2.0	0.730	0.528	1.08	0.732	0.532	1.09
		3/8	20	1.067	37.1	1.039	35.4	0.695	2.0	0.841	0.627	1.4	0.847	0.630
	1	25	1.209	34.9	1.267	33.2	1.116	2.9	1.470	0.671	2.2	1.492	0.677	2.22
		1 1/4	32	1.891	54.7	1.899	49.8	1.116	2.9	1.899	0.892	2.84	1.913	0.899
	1 1/2	40	1.973	48.6	1.982	47.8	1.116	2.9	2.177	0.948	3.34	2.100	1.000	3.28
		2	2.780	60.7	2.746	56.8	1.105	3.2	3.017	1.169	4.49	3.064	1.260	4.50
	1 1/2	45	2.562	78.0	2.561	75.2	1.105	3.2	2.586	1.103	2.75	2.544	1.199	2.67
		3	3.492	98.7	3.481	97.9	1.130	3.2	3.442	1.060	3.76	3.467	1.152	3.93
	1 1/2	30	3.084	50.2	3.049	46.3	1.142	3.6	3.040	1.052	3.7	3.067	1.057	3.89
		4	4.084	113.9	4.049	111.0	1.142	3.6	4.008	1.066	4.167	3.978	1.211	4.22
	6	126	6.643	160.8	6.643	158.0	1.117	4.0	10.000	0.879	10	10.416	0.724	10.5
		6	160	6.555	166.5	6.643	163.6	1.117	4.5	11.861	0.965	12.8	12.266	0.818

BS 1387/BS Steel Tubes and Tubular Suitable for Screwing to BS 21 Pipe Threads

Series	Nominal Size	Outside Diameter			Wall Thickness			Mean of Mean Tube			Series and Weight			
		DN	mm	mm	mm	mm	mm	mm	mm	mm				
Light	1/2	15	6.641	21.4	6.623	21.0	0.580	2.0	0.558	0.582	0.607	0.564	0.593	0.596
		3/4	20	1.058	26.6	1.041	26.4	0.690	2.0	1.027	0.621	1.38	1.054	0.620
	1	25	1.338	33.8	1.300	33.2	0.104	2.0	1.330	0.604	1.88	1.360	0.617	2.0
		1 1/4	30	1.670	42.6	1.650	41.9	0.104	2.0	1.710	0.774	2.54	1.750	0.794
	1 1/2	40	1.903	48.4	1.882	47.8	0.118	2.9	2.170	0.988	3.23	2.220	1.010	3.27
		2	2.570	55.2	2.547	54.6	0.118	2.9	2.740	1.292	4.08	2.810	1.170	4.15
	1 1/2	45	2.281	76.0	2.262	75.2	0.128	3.2	2.460	1.749	5.71	3.385	1.810	5.83
		3	3.071	90.7	3.050	87.9	0.128	3.2	3.520	2.090	6.72	4.490	2.130	6.92
	1 1/2	40	4.481	113.9	4.470	113.0	0.142	3.6	4.600	2.970	9.75	6.960	3.100	10.0
		1/2	15	0.586	21.7	0.621	21.1	0.104	2.6	0.613	0.589	1.41	0.628	0.576
	1 1/2	30	1.072	27.2	1.047	26.6	0.104	2.6	1.150	0.675	1.58	1.070	0.685	1.57
		1 1/4	32	1.687	42.9	1.657	42.1	0.128	3.2	2.060	0.945	3.1	2.130	0.960
1 1/2	40	1.919	48.8	1.889	48.0	0.128	3.2	2.400	1.090	3.57	2.460	1.120	3.61	
	2	2.594	56.8	2.554	56.8	0.142	3.6	3.360	1.500	5.03	3.470	1.570	5.1	
1 1/2	30	3.524	76.0	3.496	75.4	0.142	3.6	4.320	1.992	6.43	4.460	2.020	6.56	
	3	4.524	98.5	4.489	98.1	0.157	4.0	5.020	2.550	8.37	5.890	2.680	8.54	
1 1/2	40	4.824	114.0	4.800	113.3	0.177	4.8	5.200	3.720	12.2	6.360	3.780	12.5	
	6	12.0	5.504	5.400	5.340	0.196	5.0	11.110	5.080	16.6	11.200	5.000	17.1	
6	150	8.039	166.1	8.030	164.1	0.196	5.0	13.240	8.020	19.7	13.300	8.020	20.3	
	1/2	15	0.646	21.7	0.631	21.1	0.128	3.2	0.668	0.639	1.44	0.683	0.646	1.45
1 1/2	30	1.072	27.2	1.047	26.6	0.128	3.2	1.260	0.670	1.87	1.280	0.681	1.88	
	1	25	1.346	34.2	1.330	33.4	0.157	4.0	1.660	0.886	2.84	2.010	0.912	2.96
1 1/2	30	1.607	42.9	1.587	42.1	0.157	4.0	2.050	1.190	3.0	2.090	1.180	3.02	
	1 1/2	40	1.919	48.8	1.889	48.0	0.157	4.0	2.360	1.340	4.38	2.410	1.370	4.42
1 1/2	30	2.394	60.8	2.364	59.8	0.177	4.5	2.610	1.890	5.19	2.660	1.900	5.26	
	2	3.014	76.8	2.980	76.4	0.177	4.5	3.360	2.420	7.03	3.390	2.440	7.05	
1 1/2	30	3.624	89.5	3.599	88.1	0.196	5.0	4.020	3.140	10.3	4.070	10.2	10.5	
	4	4.604	114.9	4.569	113.3	0.212	5.4	5.140	4.420	14.5	5.010	14.500	14.8	
6	125	5.536	140.8	5.499	139.7	0.212	5.4	6.230	5.660	17.9	6.230	5.680	18.4	
	6	150	6.528	166.1	6.490	164.1								

Rectangular Steel Pipe as per EN 10219/2001

Nominal Diameter (Outside)	Nominal Thickness	Nominal Length (m)	Nominal Width (mm)	Nominal Height (mm)	Nominal Weight (kg/m)	Cross-section Area		Moment of Inertia		Section Modulus		Torsion Constant (cm ⁴)	Polar Moment (cm ⁴)	Torsion Constant (cm ⁴)	Torsion Constant (cm ⁴)	Torsion Constant (cm ⁴)	Torsion Constant (cm ⁴)																																													
						A ₁	A ₂	I _{xx}	I _{yy}	W _{xx}	W _{yy}																																																			
40	2	1.80	2.54	8.89	1.34	1.39	9.70	2.92	1.34	0.81	1.8	3.46	2.08	6.15	8.96																																															
40	2.5	2.00	2.59	8.89	1.54	1.59	9.77	3.20	1.54	0.99	1.90	4.08	2.72	6.11	9.42																																															
40	3	2.20	2.64	8.89	1.74	1.79	9.84	3.48	1.74	1.18	1.96	5.18	3.18	6.11	9.88																																															
40	3.5	2.40	2.69	8.89	1.94	1.99	9.91	3.76	1.94	1.37	2.02	6.36	3.68	6.11	10.34																																															
50	2	2.31	2.94	9.54	1.49	1.51	9.21	2.86	1.74	2.30	9.77	4.04	6.02	4.04																																																
50	2.5	2.50	2.99	9.54	1.69	1.72	9.28	3.14	1.93	2.36	11.1	5.32	6.30	3.99																																																
50	3	2.70	3.04	9.54	1.89	1.92	9.35	3.42	2.12	2.42	12.4	6.60	6.59	3.99																																																
50	3.5	2.90	3.09	9.54	2.09	2.12	9.42	3.70	2.31	2.48	13.7	7.88	6.88	3.99																																																
60	2	2.80	3.24	10.19	1.59	1.62	9.59	3.02	1.93	2.54	10.19	4.36	6.49	6.30	3.99																																															
60	2.5	3.00	3.29	10.19	1.79	1.82	9.66	3.30	2.12	2.60	11.4	5.67	6.59	6.30	3.99																																															
60	3	3.20	3.34	10.19	1.99	2.02	9.73	3.58	2.30	2.66	12.7	6.96	6.88	6.30	3.99																																															
60	3.5	3.40	3.39	10.19	2.19	2.22	9.80	3.86	2.48	2.72	14.0	8.25	7.17	6.59	6.30																																															
60	4	3.60	3.44	10.19	2.39	2.42	9.87	4.14	2.66	2.78	15.3	9.54	7.46	6.88	6.30																																															
60	4.5	3.80	3.49	10.19	2.59	2.62	9.94	4.42	2.84	2.84	16.6	10.83	7.75	7.17	6.88																																															
60	5	4.00	3.54	10.19	2.79	2.82	10.01	4.70	3.02	2.90	17.9	12.12	8.04	7.46	7.17	6.88																																														
60	5.5	4.20	3.59	10.19	2.99	3.02	10.08	4.98	3.20	2.96	19.2	13.41	8.33	7.75	7.46	7.17	6.88																																													
60	6	4.40	3.64	10.19	3.19	3.22	10.15	5.26	3.38	3.02	20.5	14.70	8.62	8.04	7.75	7.46	7.17	6.88																																												
60	6.5	4.60	3.69	10.19	3.39	3.42	10.22	5.54	3.56	3.08	21.8	16.00	8.91	8.33	8.04	8.04	7.75	7.46	7.17	6.88																																										
60	7	4.80	3.74	10.19	3.59	3.62	10.29	5.82	3.74	3.14	23.1	17.29	9.20	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																																								
60	7.5	5.00	3.79	10.19	3.79	3.82	10.36	6.10	3.92	3.20	24.4	18.58	9.49	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																																						
60	8	5.20	3.84	10.19	3.99	4.02	10.43	6.38	4.10	3.26	25.7	19.87	9.78	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																																				
60	8.5	5.40	3.89	10.19	4.19	4.22	10.50	6.66	4.28	3.32	27.0	21.16	10.07	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																																		
60	9	5.60	3.94	10.19	4.39	4.42	10.57	6.94	4.46	3.38	28.3	22.45	10.36	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																																
60	9.5	5.80	3.99	10.19	4.59	4.62	10.64	7.22	4.64	3.44	29.6	23.74	10.65	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																														
60	10	6.00	4.04	10.19	4.79	4.82	10.71	7.50	4.82	3.50	30.9	25.03	10.94	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																												
60	10.5	6.20	4.09	10.19	4.99	5.02	10.78	7.78	5.00	3.56	32.2	26.32	11.23	10.65	10.36	10.65	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																										
60	11	6.40	4.14	10.19	5.19	5.22	10.85	8.06	5.18	3.62	33.5	27.61	11.52	10.94	10.65	10.94	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																								
60	11.5	6.60	4.19	10.19	5.39	5.42	10.92	8.34	5.38	3.68	34.8	28.90	11.81	11.23	10.94	11.23	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																						
60	12	6.80	4.24	10.19	5.59	5.62	10.99	8.62	5.58	3.74	36.1	30.19	12.10	11.52	11.23	11.52	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																				
60	12.5	7.00	4.29	10.19	5.79	5.82	11.06	8.90	5.78	3.80	37.4	31.48	12.39	11.81	11.52	11.81	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																		
60	13	7.20	4.34	10.19	5.99	6.02	11.13	9.18	5.98	3.86	38.7	32.77	12.68	12.10	11.81	12.10	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88																
60	13.5	7.40	4.39	10.19	6.19	6.22	11.20	9.46	6.18	3.92	40.0	34.06	12.97	12.39	12.10	12.39	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88														
60	14	7.60	4.44	10.19	6.39	6.42	11.27	9.74	6.38	3.98	41.3	35.35	13.26	12.68	12.39	12.68	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88												
60	14.5	7.80	4.49	10.19	6.59	6.62	11.34	10.02	6.58	4.04	42.6	36.64	13.55	12.97	12.68	12.97	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88										
60	15	8.00	4.54	10.19	6.79	6.82	11.41	10.30	6.78	4.10	43.9	37.93	13.84	13.26	12.68	13.26	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88										
60	15.5	8.20	4.59	10.19	6.99	7.02	11.48	10.58	6.98	4.16	45.2	39.22	14.13	13.55	12.97	13.55	12.68	12.68	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88								
60	16	8.40	4.64	10.19	7.19	7.22	11.55	10.86	7.18	4.22	46.5	40.51	14.42	13.84	13.26	13.84	12.97	12.97	12.68	12.68	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88						
60	16.5	8.60	4.69	10.19	7.39	7.42	11.62	11.14	7.38	4.28	47.8	41.80	14.71	14.13	13.55	14.13	13.26	13.26	12.97	12.97	12.68	12.68	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88				
60	17	8.80	4.74	10.19	7.59	7.62	11.69	11.42	7.58	4.34	49.1	43.09	15.00	14.42	13.84	14.42	13.55	13.55	13.26	13.26	12.97	12.97	12.68	12.68	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94	10.94	10.65	10.65	10.36	10.36	10.07	10.07	9.78	9.78	9.49	9.49	9.20	9.20	8.91	8.91	8.62	8.62	8.33	8.33	8.04	8.04	7.75	7.46	7.17	6.88		
60	17.5	9.00	4.79	10.19	7.79	7.82	11.76	11.70	7.78	4.40	50.4	44.38	15.29	14.71	14.13	14.71	13.84	13.84	13.55	13.55	13.26	13.26	12.97	12.97	12.68	12.68	12.39	12.39	12.10	12.10	11.81	11.81	11.52	11.52	11.23	11.23	10.94																									

ISO 65- Carbon Steel Tubes Suitable for Screwing in acc. ISO 7/1

NOMINAL OUTER DIAMETER	WALL THICKNESS	DIMENSIONS				TENSILE PROPERTIES PER UNIT LENGTH (IN ACCORDANCE WITH EN 10204)				API SPECIFICATION				
		MINIMUM LENGTH (mm)	MINIMUM LENGTH (ft)	MINIMUM WEIGHT (kg)	MINIMUM WEIGHT (lb)	MINIMUM TENSILE STRENGTH (MPa)	MINIMUM TENSILE STRENGTH (ksi)	MINIMUM YIELD STRENGTH (MPa)	MINIMUM YIELD STRENGTH (ksi)	MINIMUM TENSILE ELONGATION (%)	MINIMUM TENSILE ELONGATION (%)			
8	1.9	15.2	2.6	5.807	3.49	2	3.604	0.627	1.8	3.968	0.960	1.9	2.96	0.965
8	1.6	15.5	2.9	6.205	3.994	2.5	3.641	0.645	2	4.02	0.924	1.8	2.915	0.914
10	3.0	17.2	2.9	1.82	1.90	2.0	3.809	0.845	2	3.742	0.790	1.9	2.87	0.876
16	1.0	21.9	3.0	1.44	1.48	2.8	1.21	1.22	2.3	1.08	1.09	2	0.987	0.986
20	3.4	25.9	3.2	1.87	1.86	2.0	1.95	1.57	2.3	1.28	1.4	2.3	1.38	1.38
25	1	32.7	4	2.89	2.96	3.2	2.41	2.40	2.9	2.2	2.22	2.0	1.96	2
30	1.14	42.4	4	3.79	3.82	3.2	3.1	3.10	2.9	2.82	2.86	2.0	2.94	2.97
40	1.12	48.3	4	4.37	4.41	3.2	3.36	3.0	2.9	3.24	3.18	2.0	3.23	3.27
40	2	60.3	4.6	6.19	6.26	3.6	6.03	6.1	3.2	4.49	4.68	2.0	4.68	4.65
66	2.12	75.1	4.6	7.89	8.06	3.6	6.42	6.54	3.2	5.73	6.66	3.2	5.71	6.03
80	3	85.9	5	10.5	10.5	4	8.30	8.50	3.6	7.55	7.72	3.2	6.72	6.68
100	4	114.3	5.4	14.6	14.8	4.0	12.2	12.5	4	10.8	11.1	3.0	8.70	10
125	5	139.7	5.4	17.9	18.4	5	16.8	17.1						
150	4	165.1	5.4	21.3	21.9	5	19.8	20.4						



API 5L Line Pipe

NOMINAL OUTER DIAMETER	WALL THICKNESS	DIMENSIONS				TENSILE PROPERTIES PER UNIT LENGTH (IN ACCORDANCE WITH EN 10204)				API SPECIFICATION				
		MINIMUM LENGTH (mm)	MINIMUM LENGTH (ft)	MINIMUM WEIGHT (kg)	MINIMUM WEIGHT (lb)	MINIMUM TENSILE STRENGTH (MPa)	MINIMUM TENSILE STRENGTH (ksi)	MINIMUM YIELD STRENGTH (MPa)	MINIMUM YIELD STRENGTH (ksi)	MINIMUM TENSILE ELONGATION (%)	MINIMUM TENSILE ELONGATION (%)			
102	0.840	21.3		0.109	2.8	0.08	1.28	0.622	16.7	700	700		700	
				0.147	3.7	1.09	1.61	0.946	13.9	850	850		850	
				0.284	7.5	1.72	2.55	0.202	6.3	1000	1000		1000	
				0.113	2.8	1.15	1.7	0.804	20.9	700	700		700	
54	1.050	26.7		0.154	3.8	1.48	2.19	0.743	18.9	850	850		850	
				0.308	7.8	2.44	3.64	0.634	11.1	1000	1000		1000	
				0.133	3.4	1.68	2.52	1.089	26.6	700	700		700	
1	1.315	33.4		0.179	4.5	2.17	3.21	0.807	24.4	850	850		850	
				0.358	9.1	3.66	5.45	0.989	15.2	1000	1000		1000	
				0.140	3.6	2.27	3.43	1.980	35.0	1000	1000		1000	
1 1/4	1.660	42.2		0.191	4.9	3.90	4.51	1.276	32.4	1000	1000		1000	
				0.382	9.7	5.22	7.77	0.898	22.8	1400	2200		2000	
				0.145	3.7	2.72	4.07	1.610	40.9	1000	1000		1000	
1 1/2	1.900	48.3		0.200	5.1	3.83	4.43	1.900	38.1	1300	1800		1600	
				0.400	10.2	6.41	9.58	1.100	27.9	1400	2200		2000	



API 5L Line Pipe

Nominal Size	Actual Outside Dia.	Wall Thickness	Yield Strength	Tensile Strength	Minimum Wall Thickness	Nominal Size (mm) / Actual Outside Dia. (mm) / Wall Thickness (mm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
						300	350	400	450	500	550	600	650	700	750	800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
24	24.000	89.3	345	485	371.2	300	350	400	450	500	550	600	650	700	750	800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
						89.3	91.4	93.5	95.6	97.7	99.8	101.9	104.0	106.1	108.2	110.3	112.4	114.5	116.6	118.7	120.8	122.9	125.0	127.1	129.2	131.3	133.4	135.5	137.6	139.7	141.8	143.9	146.0	148.1	150.2	152.3	154.4	156.5	158.6	160.7	162.8	164.9	167.0	169.1	171.2	173.3	175.4	177.5	179.6	181.7	183.8	185.9	188.0	190.1	192.2	194.3	196.4	198.5	200.6	202.7	204.8	206.9	209.0	211.1	213.2	215.3	217.4	219.5	221.6	223.7	225.8	227.9	230.0	232.1	234.2	236.3	238.4	240.5	242.6	244.7	246.8	248.9	251.0	253.1	255.2	257.3	259.4	261.5	263.6	265.7	267.8	269.9	272.0	274.1	276.2	278.3	280.4	282.5	284.6	286.7	288.8	290.9	293.0	295.1	297.2	299.3	301.4	303.5	305.6	307.7	309.8	311.9	314.0	316.1	318.2	320.3	322.4	324.5	326.6	328.7	330.8	332.9	335.0	337.1	339.2	341.3	343.4	345.5	347.6	349.7	351.8	353.9	356.0	358.1	360.2	362.3	364.4	366.5	368.6	370.7	372.8	374.9	377.0	379.1	381.2	383.3	385.4	387.5	389.6	391.7	393.8	395.9	398.0	400.1	402.2	404.3	406.4	408.5	410.6	412.7	414.8	416.9	419.0	421.1	423.2	425.3	427.4	429.5	431.6	433.7	435.8	437.9	440.0	442.1	444.2	446.3	448.4	450.5	452.6	454.7	456.8	458.9	461.0	463.1	465.2	467.3	469.4	471.5	473.6	475.7	477.8	479.9	482.0	484.1	486.2	488.3	490.4	492.5	494.6	496.7	498.8	500.9	503.0	505.1	507.2	509.3	511.4	513.5	515.6	517.7	519.8	521.9	524.0	526.1	528.2	530.3	532.4	534.5	536.6	538.7	540.8	542.9	545.0	547.1	549.2	551.3	553.4	555.5	557.6	559.7	561.8	563.9	566.0	568.1	570.2	572.3	574.4	576.5	578.6	580.7	582.8	584.9	587.0	589.1	591.2	593.3	595.4	597.5	599.6	601.7	603.8	605.9	608.0	610.1	612.2	614.3	616.4	618.5	620.6	622.7	624.8	626.9	629.0	631.1	633.2	635.3	637.4	639.5	641.6	643.7	645.8	647.9	650.0	652.1	654.2	656.3	658.4	660.5	662.6	664.7	666.8	668.9	671.0	673.1	675.2	677.3	679.4	681.5	683.6	685.7	687.8	689.9	692.0	694.1	696.2	698.3	700.4	702.5	704.6	706.7	708.8	710.9	713.0	715.1	717.2	719.3	721.4	723.5	725.6	727.7	729.8	731.9	734.0	736.1	738.2	740.3	742.4	744.5	746.6	748.7	750.8	752.9	755.0	757.1	759.2	761.3	763.4	765.5	767.6	769.7	771.8	773.9	776.0	778.1	780.2	782.3	784.4	786.5	788.6	790.7	792.8	794.9	797.0	799.1	801.2	803.3	805.4	807.5	809.6	811.7	813.8	815.9	818.0	820.1	822.2	824.3	826.4	828.5	830.6	832.7	834.8	836.9	839.0	841.1	843.2	845.3	847.4	849.5	851.6	853.7	855.8	857.9	860.0	862.1	864.2	866.3	868.4	870.5	872.6	874.7	876.8	878.9	881.0	883.1	885.2	887.3	889.4	891.5	893.6	895.7	897.8	899.9	902.0	904.1	906.2	908.3	910.4	912.5	914.6	916.7	918.8	920.9	923.0	925.1	927.2	929.3	931.4	933.5	935.6	937.7	939.8	941.9	944.0	946.1	948.2	950.3	952.4	954.5	956.6	958.7	960.8	962.9	965.0	967.1	969.2	971.3	973.4	975.5	977.6	979.7	981.8	983.9	986.0	988.1	990.2	992.3	994.4	996.5	998.6	1000.7	1002.8	1004.9	1007.0	1009.1	1011.2	1013.3	1015.4	1017.5	1019.6	1021.7	1023.8	1025.9	1028.0	1030.1	1032.2	1034.3	1036.4	1038.5	1040.6	1042.7	1044.8	1046.9	1049.0	1051.1	1053.2	1055.3	1057.4	1059.5	1061.6	1063.7	1065.8	1067.9	1070.0	1072.1	1074.2	1076.3	1078.4	1080.5	1082.6	1084.7	1086.8	1088.9	1091.0	1093.1	1095.2	1097.3	1099.4	1101.5	1103.6	1105.7	1107.8	1109.9	1112.0	1114.1	1116.2	1118.3	1120.4	1122.5	1124.6	1126.7	1128.8	1130.9	1133.0	1135.1	1137.2	1139.3	1141.4	1143.5	1145.6	1147.7	1149.8	1151.9	1154.0	1156.1	1158.2	1160.3	1162.4	1164.5	1166.6	1168.7	1170.8	1172.9	1175.0	1177.1	1179.2	1181.3	1183.4	1185.5	1187.6	1189.7	1191.8	1193.9	1196.0	1198.1	1200.2	1202.3	1204.4	1206.5	1208.6	1210.7	1212.8	1214.9	1217.0	1219.1	1221.2	1223.3	1225.4	1227.5	1229.6	1231.7	1233.8	1235.9	1238.0	1240.1	1242.2	1244.3	1246.4	1248.5	1250.6	1252.7	1254.8	1256.9	1259.0	1261.1	1263.2	1265.3	1267.4	1269.5	1271.6	1273.7	1275.8	1277.9	1280.0	1282.1	1284.2	1286.3	1288.4	1290.5	1292.6	1294.7	1296.8	1298.9	1301.0	1303.1	1305.2	1307.3	1309.4	1311.5	1313.6	1315.7	1317.8	1319.9	1322.0	1324.1	1326.2	1328.3	1330.4	1332.5	1334.6	1336.7	1338.8	1340.9	1343.0	1345.1	1347.2	1349.3	1351.4	1353.5	1355.6	1357.7	1359.8	1361.9	1364.0	1366.1	1368.2	1370.3	1372.4	1374.5	1376.6	1378.7	1380.8	1382.9	1385.0	1387.1	1389.2	1391.3	1393.4	1395.5	1397.6	1399.7	1401.8	1403.9	1406.0	1408.1	1410.2	1412.3	1414.4	1416.5	1418.6	1420.7	1422.8	1424.9	1427.0	1429.1	1431.2	1433.3	1435.4	1437.5	1439.6	1441.7	1443.8	1445.9	1448.0	1450.1	1452.2	1454.3	1456.4	1458.5	1460.6	1462.7	1464.8	1466.9	1469.0	1471.1	1473.2	1475.3	1477.4	1479.5	1481.6	1483.7	1485.8	1487.9	1490.0	1492.1	1494.2	1496.3	1498.4	1500.5	1502.6	1504.7	1506.8	1508.9	1511.0	1513.1	1515.2	1517.3	1519.4	1521.5	1523.6	1525.7	1527.8	1529.9	1532.0	1534.1	1536.2	1538.3	1540.4	1542.5	1544.6	1546.7	1548.8	1550.9	1553.0	1555.1	1557.2	1559.3	1561.4	1563.5	1565.6	1567.7	1569.8	1571.9	1574.0	1576.1	1578.2	1580.3	1582.4	1584.5	1586.6	1588.7	1590.8	1592.9	1595.0	1597.1	1599.2	1601.3	1603.4	1605.5	1607.6	1609.7	1611.8	1613.9	1616.0	1618.1	1620.2	1622.3	1624.4	1626.5	1628.6	1630.7	1632.8	1634.9	1637.0	1639.1	1641.2	1643.3	1645.4	1647.5	1649.6	1651.7	1653.8	1655.9	1658.0	1660.1	1662.2	1664.3	1666.4	1668.5	1670.6	1672.7	1674.8	1676.9	1679.0	1681.1	1683.2	1685.3	1687.4	1689.5	1691.6	1693.7	1695.8	1697.9	1700.0	1702.1	1704.2	1706.3	1708.4	1710.5	1712.6	1714.7	1716.8	1718.9	1721.0	1723.1	1725.2	1727.3	1729.4	1731.5	1733.6	1735.7	1737.8	1739.9	1742.0	1744.1	1746.2	1748.3	1750.4	1752.5	1754.6	1756.7	1758.8	1760.9	1763.0	1765.1	1767.2	1769.3	1771.4	1773.5	1775.6	1777.7	1779.8	1781.9	1784.0	1786.1	1788.2	1790.3	1792.4	1794.5	1796.6	1798.7	1800.8	1802.9	1805.0	1807.1	1809.2	1811.3	1813.4	1815.5	1817.6	1819.7	1821.8	1823.9	1826.0	1828.1	1830.2	1832.3	1834.4	1836.5	1838.6	1840.7	1842.8	1844.9	1847.0	1849.1	1851.2	1853.3	1855.4	1857.5	1859.6	1861.7	1863.8	1865.9	1868.0	1870.1	1872.2	1874.3	1876.4	1878.5	1880.6	1882.7	1884.8	1886.9	1889.0	1891.1	1893.2	1895.3	1897.4	1899.5	1901.6	1903.7	1905.8	1907.9	1910.0	1912.1	1914.2	1916.3	1918.4	1920.5	1922.6	1924.7	1926.8	1928.9	1931.0	1933.1	1935.2	1937.3	1939.4	1941.5	1943.6	1945.7	1947.8	1949.9	1952.0	1954.1	1956.2	1958.3	1960.4	1962.5	1964.6	1966.7	1968.8	1970.9	1973.0	1975.1	1977.2	1979.3	1981.4	1983.5	1985.6	1987.7	1989.8	1991.9	1994.0	1996.1	1998.2	2000.3	2002.4	2004.5	2006.6	2008.7	2010.8	2012.9	2015.0	2017.1	2019.2	2021.3	2023.4	2025.5	2027.6	2029.7	2031.8	2033.9	2036.0	2038.1	2040.2	2042.3	2044.4	2046.5	2048.6	2050.7	2052.8	2054.9	2057.0	2059.1	2061.2	2063.3	2065.4	2067.5	2069.6	2071.7	2073.8	2075.9	2078.0	2080.1	2082.2	2084.3	2086.4	2088.5	2090.6	2092.7	2094.8	2096.9	2099.0	2101.1	2103.2	2105.3	2107.4	2109.5	2111.6	2113.7	2115.8	2117.9	2120.0	2122.1	2124.2	2126.3	2128.4	2130.5	2132.6	2134.7	2136.8	2138.9	2141.0	2143.1	2145.2	2147.3	2149.4	2151.5	2153.6	2155.7	2157.8	2159.9	2162.0	2164.1	2166.2	2168.3	2170.4	2172.5	2174.6	2176.7	2178.8	2180.9	2183.0	2185.1	2187.2	2189.3	2191.4	2193.5	2195.6	2197.7	2199.8	2201.9	2204.0	2206.1	2208.2	2210.3	2212.4	2214.5	2216.6	2218.7	2220.8	2222.9	2225.0	2227.1	2229.2	2231.3	2233.4	2235.5	2237.6	2239.7	2241.8	2243.9	2246.0	2248.1	2250.2	2252.3	2254.4	2256.5	2258.6	2260.7	2262.8	2264.9	2267.0	2269.1	2271.2	2273.3	2275.4	2277.5	2279.6	2281.7	2283.8	2285.9	2288.0	2290.1	2292.2	2294.3	2296.4	2298.5	2300.6	2302.7	2304.8	2306.9	2309.0	2311.1	2313.2	2315.3	2317.4	2319.5	2321.6	2323.7	2325.8	2327.9	2330.0	2332.1	2334.2	2336.3	2338.4	2340.5	2342.6	2344.7	2346.8	2348.9	2351.0	2353.1	2355.2	2357.3	2359.4	2361.5	2363.6	2365.7	2367.8	2369.9	2372.0	2374.1	2376.2	2378.3	2380.4	2382.5	2384.6	2386.7	2388.8	2390.9	2393.0	2395.1	2397.2	2399.3	2401.4	2403.5	2405.6	2407.

ASTM A53 Welded Pipes / A106 Seamless Pipes
Dimensions, Weights (Masses) per Unit Length, and Test Pressures for Plain-End Pipe

API Designation	DN Designator	Standard Outside Diameter (mm)	Note 1.1 (wall=0.8701 kg/cm ² 2.1 (wall=0.452599 g/s)				Test Pressure (k) (MPa)	
			Specimen Wall Thickness (mm)	Masses (kg/m) (lb/ft)	Weight Class	Schedule No.		
20	900	20,000(788)	0.250 (0.35)	52.78 (70.55)	--	10	450(3.1)	520(3.6)
			0.281 (7.14)	59.23(80.19)	--	--	510 (3.5)	590 (4.1)
			0.312 (7.93)	65.68(87.07)	--	--	600 (3.5)	600(4.1)
			0.344 (8.74)	72.28(97.40)	--	--	600 (4.2)	720 (3.9)
			0.375 (9.53)	78.67(117.40)	STD	20	600 (4.7)	790 (4.9)
			0.406(10.31)	84.94(126.53)	--	--	700 (5.0)	850 (5.9)
			0.438 (11.13)	91.29(136.37)	--	--	700 (5.5)	920 (6.3)
			0.469(11.91)	97.92(145.70)	--	--	850 (5.5)	990 (6.9)
			0.500(12.70)	104.23(155.12)	XS	30	900 (6.2)	1050 (7.2)
			0.564(14.06)	123.23(183.42)	--	40	1170(8.1)	1250 (8.6)
			0.612(15.52)	136.56(207.83)	--	60	1460 (10.1)	1510(11.0)
			1.031(26.19)	208.06(311.17)	--	80	1600 (12.8)	2170 (15.0)
			1.281(32.54)	258.34(391.53)	--	100	2310 (15.9)	2690 (18.5)
			1.500(38.10)	296.65(441.46)	--	120	2700 (18.6)	2800 (19.3)
			1.750(44.46)	341.41(508.11)	--	140	2800 (19.3)	2800 (19.3)
1.900(50.21)	370.63(559.81)	--	160	2800 (19.3)	2800 (19.3)			
24	900	24,000(914)	0.250 (0.35)	63.47(94.46)	--	10	380(2.6)	460(3.0)
			0.281 (7.14)	71.25(106.09)	--	--	420 (2.9)	490 (3.4)
			0.312 (7.93)	79.04(117.51)	--	--	470(3.2)	560(3.6)
			0.344 (8.74)	86.99(129.5)	--	--	520 (3.5)	600 (4.1)
			0.375 (9.53)	94.71(140.88)	STD	20	560 (3.9)	660 (4.5)
			0.406(10.31)	102.49(152.37)	--	--	610 (4.2)	710 (4.9)
			0.438 (11.13)	110.32(164.26)	--	--	660 (4.5)	770 (5.3)
			0.469(11.91)	117.98(175.54)	--	--	700 (4.6)	820 (5.7)
			0.500(12.70)	125.61(186.94)	XD	--	750 (5.2)	880 (6.1)
			0.562(14.27)	140.61(209.56)	--	30	840(5.8)	980 (6.8)
			0.608(15.48)	151.45(225.24)	--	40	930(7.1)	1020(7.3)
			0.930 (23.83)	221.26(344.22)	--	--	1410 (9.7)	1640 (11.3)
			0.980 (24.81)	238.57(355.02)	--	60	1450 (10.0)	1700 (11.7)
			1.279(30.26)	296.86(441.78)	--	80	1830 (12.6)	2130 (14.7)
			1.531(39.09)	357.74(547.33)	--	100	2300 (16.9)	2680 (18.5)
1.612(40.92)	429.79(639.56)	--	120	2720 (18.6)	2800 (19.3)			
2.062(52.37)	483.57(719.63)	--	140	2800 (19.3)	2800 (19.3)			
2.344(59.54)	562.64(837.63)	--	160	2800 (19.3)	2800 (19.3)			
26	650	16,000(630)	0.250 (0.35)	68.85(102.42)	--	--	350(2.4)	400(2.6)
			0.281 (7.14)	77.26(115.60)	--	--	390 (2.7)	450 (3.1)
			0.312 (7.93)	85.68(127.43)	--	10	420(3.0)	500(3.4)
			0.344 (8.74)	94.35(140.45)	--	--	460(3.3)	560 (3.9)
			0.375 (9.53)	102.72(152.90)	STD	--	520 (3.6)	610 (4.2)
			0.406(10.31)	111.08(165.28)	--	--	560 (3.9)	660 (4.4)
			0.438 (11.13)	119.09(175.26)	--	--	610 (4.2)	710 (4.9)
			0.469(11.91)	126.00(186.46)	--	--	660 (4.5)	780 (5.2)
			0.500(12.70)	136.30(202.86)	XS	20	660 (4.6)	810 (5.9)
			0.562(14.27)	152.63(227.37)	--	--	760(5.4)	910 (6.3)



ASTM A53 Welded Pipes / A106 Seamless Pipes

Dimensions, Weights (Masses) per Unit Length, and Test Pressures for Threaded and Coupled Pipe

Note: 1. Type-K E70C3 kg/cm ² 2. Type-B E43C3 kg/cm ²										
NPS Designation	DN Designation	Specified Outside Diameter (in./mm)	Specified Wall Thickness (in./mm)	Nominal Weight (Mass) per Unit Length (lb/ft/kg/m)	Weight Class	Schedule No.	Test Pressure, psi / MPa			
							Class B	Class B		
1/2	15	0.840(21.3)	0.109(2.77)	0.86(21.27)	STD	40	700(4.8)	700(4.8)		
			0.147(3.73)	1.09(28.52)	XS	80	860(5.9)	860(5.9)		
3/4	20	1.050(26.7)	0.125(3.18)	1.14(29.0)	STD	40	700(4.8)	700(4.8)		
			0.154(3.91)	1.48(21.0)	XS	80	860(5.9)	860(5.9)		
1	25	1.315(33.4)	0.139(3.52)	2.45(62.4)	XOS	--	1000(6.9)	1000(6.9)		
			0.139(3.52)	1.69(2.50)	STD	40	700(4.8)	700(4.8)		
1 1/4	32	1.640(41.9)	0.170(4.30)	2.89(74.4)	XOS	--	1000(6.9)	1000(6.9)		
			0.170(4.30)	2.53(64.0)	STD	40	1000(6.9)	1000(6.9)		
1 1/2	40	1.900(48.3)	0.200(5.08)	3.89(99.3)	XOS	--	1500(10.3)	1600(11.0)		
			0.200(5.08)	3.46(88.4)	STD	40	1500(10.3)	1600(11.0)		
2	50	2.375(60.3)	0.219(5.54)	6.08(155)	XOS	--	2500(17.2)	2600(17.2)		
			0.219(5.54)	5.46(140.5)	STD	40	2500(17.2)	2600(17.2)		
2 1/2	65	2.875(73.0)	0.237(6.01)	8.89(227)	XOS	--	2500(17.2)	2600(17.2)		
			0.237(6.01)	7.97(202.3)	STD	40	2500(17.2)	2600(17.2)		
3	80	3.500(88.9)	0.260(6.60)	11.35(288)	XOS	--	2500(17.2)	2600(17.2)		
			0.260(6.60)	10.35(263.6)	STD	40	2500(17.2)	2600(17.2)		
3 1/2	90	4.000(101.6)	0.273(6.93)	12.81(327)	XOS	--	2500(17.2)	2600(17.2)		
			0.273(6.93)	11.71(297.8)	STD	40	2500(17.2)	2600(17.2)		
4	100	4.500(114.3)	0.287(7.29)	15.29(392)	XOS	--	2700(18.6)	2900(19.3)		
			0.287(7.29)	14.02(361.5)	STD	40	2700(18.6)	2900(19.3)		
5	125	5.963(151.3)	0.308(7.80)	21.82(562)	XOS	--	2800(19.3)	3000(19.3)		
			0.308(7.80)	20.42(516.5)	STD	40	2800(19.3)	3000(19.3)		
6	150	6.825(173.3)	0.324(8.23)	24.81(625)	XOS	--	2800(19.3)	3000(19.3)		
			0.324(8.23)	23.41(595.5)	STD	40	2800(19.3)	3000(19.3)		
8	200	8.625(219.1)	0.350(8.89)	33.63(853)	XOS	--	2800(19.3)	3000(19.3)		
			0.350(8.89)	31.23(789.5)	STD	40	2800(19.3)	3000(19.3)		
10	250	10.750(273.0)	0.375(9.53)	44.38(1118)	XOS	--	3000(19.3)	3200(19.3)		
			0.375(9.53)	41.98(1070)	STD	40	3000(19.3)	3200(19.3)		
12	300	12.750(323.8)	0.400(10.16)	59.53(1493)	XOS	--	3000(19.3)	3200(19.3)		
			0.400(10.16)	56.13(1426)	STD	40	3000(19.3)	3200(19.3)		

ASTM A252

NPS Designation	DN Designation	Specified Outside Diameter (in./mm)	Specified Wall Thickness (in./mm)	Nominal Weight (Mass) per Unit Length (lb/ft/kg/m)	Weight Class	Schedule No.	Test Pressure, psi / MPa		NPS Designation	DN Designation	Specified Outside Diameter (in./mm)	Specified Wall Thickness (in./mm)	Nominal Weight (Mass) per Unit Length (lb/ft/kg/m)	Weight Class	Schedule No.
							Class B	Class B							
6	150	6.312	0.334	8.41			0.241	6.13	10.8	270	6.312	0.355	40.52		
			0.355	9.75	0.35	14.70	0.34	8.63				0.36	46.28		
8	200	8.125	0.372	10.72			0.341	17.82	12	250	8.125	0.372	44.38		
			0.341	11.85	0.35	19	0.36	20.75				0.37	42.59		
10	250	10.312	0.412	14.39			0.372	21.75	14	300	10.312	0.412	50.52		
			0.372	12.89	0.39	22.62	0.38	23.74				0.39	25.5		
12	300	12.312	0.452	18.56			0.402	25.6	16	350	12.312	0.452	56.66		
			0.402	16.28	0.39	27.50	0.38	27.22				0.39	29.57		
14	350	14.312	0.492	22.83			0.432	29.84	18	400	14.312	0.492	62.80		
			0.432	20.58	0.38	22.88	0.38	24.74				0.39	26.52		
16	400	16.312	0.532	27.10			0.462	34.04	20	450	16.312	0.532	68.94		
			0.462	24.72	0.41	31.4	0.41	33.3				0.42	35.2		
18	450	18.312	0.572	31.37			0.492	38.23	22	500	18.312	0.572	75.08		
			0.492	29.91	0.45	29.2	0.45	31.4				0.46	33.5		
20	500	20.312	0.612	35.64			0.522	42.42	24	550	20.312	0.612	81.22		
			0.522	33.07	0.48	31.4	0.48	33.5				0.49	35.6		
22	550	22.312	0.652	39.91			0.552	46.61	26	600	22.312	0.652	87.36		
			0.552	35.24	0.50	33.5	0.50	35.6				0.51	38.7		
24	600	24.312	0.692	44.18			0.582	50.80	28	650	24.312	0.692	93.50		
			0.582	39.57	0.53	35.6	0.53	37.7				0.54	41.9		
26	650	26.312	0.732	48.45			0.612	55.00	30	700	26.312	0.732	99.64		
			0.612	43.84	0.56	37.7	0.56	39.9				0.57	42.2		
28	700	28.312	0.772	52.72			0.642	59.19	32	750	28.312	0.772	105.78		
			0.642	48.23	0.59	39.9	0.59	42.2				0.60	44.4		
30	750	30.312	0.812	56.99			0.672	63.38	34	800	30.312	0.812	111.92		
			0.672	53.40	0.61	42.2	0.61	44.4				0.62	46.6		
32	800	32.312	0.852	60.72			0.702	67.57	36	850	32.312	0.852	118.06		
			0.702	57.81	0.64	44.4	0.64	46.6				0.65	48.8		
34	900	34.312	0.892	64.45			0.732	71.76	38	900	34.312	0.892	124.20		
			0.732	60.00	0.67	46.6	0.67	48.8				0.68	50.9		
36	900	36.312	0.932	68.18			0.762	75.95	40	950	36.312	0.932	130.34		
			0.762	65.66	0.70	48.8	0.70	50.9				0.71	53.0		
38	950	38.312	0.972	71.91			0.792	80.14	42	1000	38.312	0.972	136.48		
			0.792	69.15	0.73	50.9	0.73	53.0				0.74	55.1		
40	1000	40.312	1.012	75.64			0.822	84.33	44	1050	40.312	1.012	142.62		
			0.822	73.12	0.76	53.0	0.76	55.1				0.77	57.2		
42	1050	42.312	1.052	79.37			0.852	88.52	46	1100	42.312	1.052	148.76		
			0.852	76.65	0.79	55.1	0.79	57.2				0.80	59.3		
44	1100	44.312	1.092	83.10			0.882	92.71	48	1150	44.312	1.092	154.90		
			0.882	80.18	0.82	57.2	0.82	59.3				0.83	61.4		
46	1150	46.312	1.132	86.83			0.912	96.90	50	1200	46.312	1.132	161.04		
			0.912	83.71	0.85	59.3	0.85	61.4				0.86	63.5		
48	1200	48.312	1.172	90.56			0.942	101.09	52	1250	48.312	1.172	167.18		
			0.942	87.60	0.88	61.4	0.88	63.5				0.89	65.6		
50	1250	50.312	1.212	94.29			0.972	105.28	54	1300	50.312	1.212	173.32		
			0.972	91.49	0.91	63.5	0.91	65.6				0.92	67.7		
52	1300	52.312	1.252	98.02			1.002	109.47	56	1350	52.312	1.252	179.46		
			1.002	95.78	0.94	65.6	0.94	67.7				0.95	69.8		
54	1350	54.312	1.292	101.75			1.032	113.66	58	1400	54.312	1.292	185.60		
			1.032	99.53	0.97	67.7	0.97	69.8				0.98	71.9		
56	1400	56.312	1.332	105.48			1.062	117.85	60	1450	56.312	1.332	191.74		
			1.062	103.28	1.00	71.9	1.00	71.9				1.01	74.0		
58	1450	58.312	1.372	109.21			1.092	122.04	62	1500	58.312	1.372	197.88		
			1.092	107.01	1.03	74.0	1.03	74.0				1.04	76.1		
60	1500	60.312	1.412	112.94			1.122	126.23	64	1550	60.312	1.412	204.02		
			1.122	110.74	1.06	76.1	1.06	76.1				1.07	78.2		
62	1550	62.312	1.452	116.67			1.152	130.42	66	1600	62.312	1.452	210.16		
			1.152	114.54	1.09	78.2	1.09	78.2				1.10	80.3		
64	1600	64.312	1.492	120.40			1.182	134.61	68	1650	64.312	1.492	216.30		
			1.182	118.31	1.12	80.3	1.12	80.3				1.13	82.4		
66	1650	66.312	1.532	124.13			1.212	138.80	70	1700	66.312	1.532	222.44		
			1.212	122.11	1.15	82.4	1.15</								

ASTM A500 Round Pipes

Nominal Size	Outside Diameter		Wall Thickness		Weight		
	mm	inch	mm	inch	kg/m	lb/ft	lb/ft
1/2	0.840	21.3	0.109	2.77	0.85	0.39	1.27
3/8	1.050	26.7	0.113	2.87	0.81	0.37	1.19
1	1.315	33.4	0.104	2.64	1.34	0.61	2.00
	1.660	42.2	0.110	2.79	1.81	0.82	2.71
1 1/4	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
	1.900	48.3	0.114	2.90	2.17	0.98	3.25
1 1/2	1.900	48.3	0.145	3.68	2.72	1.23	4.05
	1.900	48.3	0.200	5.08	3.63	1.64	5.41
2	2.375	60.3	0.121	3.07	2.92	1.32	4.33
	2.375	60.3	0.194	3.91	3.55	1.66	5.44
2 1/2	2.375	60.3	0.218	5.54	5.02	2.28	7.48
	2.875	73	0.196	3.96	4.53	2.06	6.74
	2.875	73	0.188	4.79	5.40	2.45	8.04
3	2.875	73	0.203	5.16	5.79	2.63	8.63
	2.875	73	0.276	7.01	7.88	3.47	11.41
3 1/2	3.500	88.9	0.196	3.96	5.58	2.53	8.30
	3.500	88.9	0.188	4.78	6.53	3.01	9.82
4	3.900	98.9	0.226	5.69	7.58	3.44	11.29
	4.000	101.6	0.196	3.96	6.40	2.90	9.64
4 1/2	4.000	101.6	0.188	4.78	7.53	3.46	11.41
	4.000	101.6	0.226	5.74	9.11	4.13	13.57
	4.900	124.3	0.196	3.96	7.25	3.29	10.78
5	4.500	114.3	0.188	4.78	8.84	3.92	12.81
	4.500	114.3	0.219	5.56	10.10	4.54	14.91
6	4.900	124.3	0.237	6.02	10.78	4.89	16.08
	4.900	124.3	0.337	8.50	14.98	6.79	22.32
8	5.963	141.3	0.298	6.85	14.62	6.63	21.77
	5.963	141.3	0.375	9.53	20.78	9.43	30.97
10	6.625	168.3	0.280	7.11	18.97	8.60	28.26
	6.625	168.3	0.322	8.19	23.06	10.49	34.59
12	8.625	219.1	0.390	9.77	33.59	15.46	54.54
	10.750	273.0	0.395	9.97	40.48	18.36	60.29
14	10.750	273.0	0.500	12.7	54.74	24.83	81.53
	12.750	323.8	0.375	9.52	49.96	22.48	73.79
16	12.750	323.8	0.500	12.7	65.42	29.67	97.44
	14.000	356.6	0.375	9.52	54.97	24.75	81.26
18	14.000	356.6	0.500	12.7	72.09	32.70	107.40
	16.000	406.4	0.375	9.52	62.58	28.39	93.16
20	16.000	406.4	0.500	12.7	82.77	37.54	123.31
	18.000	457	0.375	9.52			108.06
24	18.000	457	0.500	12.7			139.16
	20.000	508	0.375	9.52			117.03
28	20.000	508	0.500	12.7			156.13
	24.000	609.6	0.375	9.52			140.89
30	24.000	609.6	0.500	12.7			186.95

ASTM A500 GRA/B/C Cold Formed Hollow Section

Square Pipes		Rectangular Pipes	
Size(mm)	Thickness(mm)	Size(mm)	Thickness(mm)
10 x 10	0.6 - 1.0	20 x 10	0.6 - 1.0
12 x 12	0.6 - 1.0	25 x 12	0.6 - 1.0
16 x 16	0.6 - 1.2	38 x 19	0.6 - 1.5
19 x 19	0.6 - 1.5	50 x 25	0.6 - 1.5
20 x 20	0.6 - 1.5	50 x 30	1.0 - 3.0
25 x 25	1.0 - 2.75	60 x 40	1.5 - 3.5
30 x 30	1.0 - 2.75	75 x 50	1.5 - 4.0
32 x 32	1.0 - 3.0	80 x 40	1.5 - 4.0
38 x 38	1.0 - 3.0	100 x 50	2.0 - 6.0
40 x 40	1.0 - 3.5	100 x 60	2.0 - 6.0
50 x 50	1.0 - 5.0	100 x 75	2.0 - 6.0
60 x 60	1.0 - 6.0	120 x 60	3.0 - 6.0
63.5 x 63.5	1.0 - 6.0	120 x 80	3.0 - 6.0
70 x 70	1.5 - 6.0	125 x 50	3.0 - 6.0
75 x 75	1.5 - 6.0	125 x 75	3.0 - 6.0
80 x 80	2.0 - 6.0	150 x 50	3.0 - 6.0
90 x 90	2.0 - 6.0	150 x 75	3.0 - 6.0
100 x 100	2.3 - 6.0	150 x 100	4.0 - 12
120 x 120	4.0 - 6.0	160 x 80	4.0 - 6.0
125 x 125	4.0 - 6.0	175 x 100	4.0 - 12
150 x 150	4.0 - 8.0	200 x 100	4.0 - 12
200 x 200	6.0 - 12	200 x 150	4.0 - 12
250 x 250	6.0 - 12	250 x 150	5.0 - 12
300 x 300	6.0 - 12	300 x 200	5.0 - 12
350x350	6.0 - 12	350x250	5.0 - 12
400 x 400	6.0 - 12	400 x 200	5.0 - 12
500x500	6.0 - 16	500x300	5.0-16

ASTM A795 Black and Red and Hot Dipped Zinc-Coated, Welded Steel Pipe for Fire Protection Use

Dimensions, Weights, and Test Pressure For Light Weight Fire Protection Pipe—Schedule 16 A									
NPS Designator	DN Designator	Outside Diameter		Wall Thickness		Weight Per Foot		Test Pressure (Seamless and Double End-Butt-Flame-Beveled)	
		in	mm	in	mm	lb/ft	kg/m	psi	MPa
3/4	20	1.00	25.4	0.083	2.11	0.85	1.28	750	4.8
1	25	1.315	33.4	0.109	2.77	1.41	2.09	750	4.8
1 1/4	32	1.58	40.2	0.109	2.77	1.81	2.60	1000	6.9
1 1/2	40	1.9	48.3	0.109	2.77	2.50	3.11	1000	6.9
2	50	2.375	60.3	0.109	2.77	2.64	3.95	1000	6.9
2 1/2	65	2.875	73	0.12	3.05	3.05	5.25	1000	6.9
3	80	3.5	88.9	0.12	3.05	4.34	6.45	1000	6.9
3 1/2	90	4	101.6	0.12	3.05	4.98	7.41	1200	8.3
4	100	4.5	114.3	0.12	3.05	5.62	8.37	1200	8.3
5	125	5.563	141.3	0.134	3.4	7.79	11.58	1200	8.3
6	150	6.625	168.3	0.134	3.4	9.3	13.66	1000	6.9
8	200	8.625	219.1	0.189	4.78	16.96	26.26	850	5.6
10	250	10.75	273.1	0.188	4.78	21.23	31.62	750	4.8



Dimensions, Weights, Test Pressure For Standard-Weight Fire Protection Pipe—Schedule 30 and Schedule 40									
NPS Designator	DN Designator	Outside Diameter		Wall Thickness		Weight Per Foot		Test Pressure (Seamless and Double End-Butt-Flame-Beveled)	
		in	mm	in	mm	lb/ft	kg/m	psi	MPa
1/2	15	0.91	23.0	0.109	2.77	0.85	1.27	750	4.8
3/4	20	1.06	26.7	0.113	2.87	1.10	1.60	750	4.8
1	25	1.315	33.4	0.133	3.38	1.66	2.5	750	4.8
1 1/4	32	1.58	40.2	0.141	3.58	2.27	3.4	1000	6.9
1 1/2	40	1.9	48.3	0.145	3.68	3.72	4.87	1000	6.9
2	50	2.375	60.3	0.154	3.91	3.96	5.5	1000	6.9
2 1/2	65	2.875	72	0.203	5.16	5.5	8.60	1000	6.9
3	80	3.5	88.9	0.216	5.49	7.06	11.25	1000	6.9
3 1/2	90	4	101.6	0.226	5.74	8.12	13.71	1200	8.3
4	100	4.5	114.3	0.237	6.02	9.5	16.25	1200	8.3
5	125	5.563	141.3	0.258	6.55	14.83	22.07	1000	6.9
6	150	6.625	168.3	0.261	7.11	18.90	28.0	1200	8.3
8	200	8.625	219.1	0.377	7.04	24.73	36.06	1200	8.3
10	250	10.75	273.1	0.367	7.8	34.27	53.29	1000	6.9



Note 1.tps=0.0709kg/m² 2.1bf=0.4539kg/ft

Fitting

			
● Slip on Flange	● Welding Neck Flange	● Threading Flange	● Blind Flange
			
● Tee Reducer	● Tee Straight	● LR 180° Elbow	● S/R 180° Elbow
			
● LR 90° Elbow	● S/R 90° Elbow	● L/R 45° Elbow	● S/R 45° Elbow
			
● Ecc Reducer	● Con Reducer	● Cap	

Section Steel

Equal & Unequal Angle Bar


AVAILABLE STEEL GRADE	EQUAL ANGLE BAR	UNEQUAL ANGLE BAR
Q235B, Q345B A57, A572, GR 50 S235LR, S355LR S540L		

DIMENSION IN BOLD IN BELOW TABLES FOR EQUAL/UNEQUAL ANGLE ARE RECOMMENDED

EQUAL ANGLE BAR DIMENSION-I (MM)			EQUAL ANGLE BAR DIMENSION-II (MM)		
A/B	t	UNIT WEIGHT (KG/M)	A/B	t	UNIT WEIGHT (KG/M)
50*50	5/6	0.869/1.145	50*50	6/7.5/10/12	1.365/1.650/1.940/2.470/3.145
50*25	3/4	1.124/1.459	100*100	6/7.5/10/12/14	9.366/10.833/12.206/15.126/17.889/20.611
50*30	3/4	1.375/1.766	110*110	7.5/10/12/14	11.889/13.532/15.690/18.262/20.806
50*36	3/4/5	1.650/2.102/2.654	120*120	8	14.7
40*40	3/4/5	1.020/1.422/2.070	120*125	8/10/12/14	15.502/18.133/22.096/26.193
40*45	3/4/5/6	2.068/2.760/3.569/4.585	130*130	8/10/15	17.823/24.26.8
50*50	3/4/5/6	2.323/3.080/3.770/4.405	140*140	10/12/15/16	21.488/26.322/29.890/33.393
50*55	3/4/5/6	2.024/3.446/4.251/5.308	160*160	12/15/19	27.533/41.41.9
60*60	4/5	3.084/4.55	160*160	10/12/14/16	24.729/29.391/32.087/36.518
60*65	5/6/8	5.095/6.817/8.60	180*180	12/14/16/18	33.190/38.283/43.542/48.854
70*70	4/5/6/7/8	4.275/5.307/6.467/7.336/8.073	200*200	14/16/18/20/24	42.894/48.880/54.401/60.266/71.108
75*75	5/6/7/8/10	5.018/6.305/7.379/8.030/11.089			
80*80	5/6/7/8/10	6.211/7.376/8.029/9.056/11.874			

UNEQUAL ANGLE BAR DIMENSION (MM)		
A X B	t	UNIT WEIGHT (KG/M)
100 X 50	6/8	6.85/8.30
100 X 75	7/8/10	9.32/11.3/13
125 X 75	7/10/12	10.7/13.0/17.5
150 X 90	8/10/12	15.9/18.0/14.6
200 X 100	10/12	23/27.3

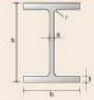
Steel Channel

AVAILABLE STEEL GRADE	STEEL CHANNELS
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR S5400.	
DIMENSION IN BOLD IN BELOW TABLES FOR STEEL CHANNELS ARE RECOMMENDED	

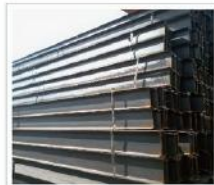
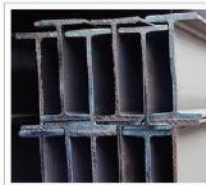
CHANNEL DIMENSION (MM)	UNIT WEIGHT (KG/M)		
	H * B	H	t
75*40	3.8	7	5.3
75*40	5	7	6.92
100*50	3.8	6	7.3
100*50	4.5	7.5	8.97
100*50	5	7.5	9.26
125*65	6	6.8	11.58
125*65	5.2	8	13.4
150*75	5.5	7.3	14.58
150*75	6	10	17.9
150*75	6.5	10	18.5



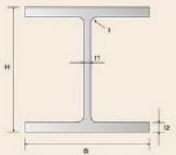
IPE / IPEAA

AVAILABLE STEEL GRADE	IPE/ IPEAA
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR S5400.	
DIMENSION IN BOLD IN BELOW TABLES FOR IPE/IPEAA ARE RECOMMENDED	

NOMINAL SIZE	AVAILABLE STEEL GRADE: S27-2, S312-3, S235JR, S355JR					UNIT WEIGHT (KG/M)
	h	b	e	t	r	
IPE AA-100	97.6	55	3.6	4.4	7	6.72
IPE-100	100	55	4.1	5.7	7	8.10
IPE AA-120	117	64	3.8	4.8	7	6.30
IPE-120	120	64	4.4	6.3	7	10.4
IPE AA-140	136.6	73	3.8	5.2	7	10.05
IPE-140	140	73	4.7	6.9	7	12.9
IPE AA-160	156.4	82	4	5.6	7	12.91
IPE-160	160	82	5.0	7.4	9	15.8
IPE AA-180	176.4	91	4.3	6.2	9	14.04
IPE-180	180	91	5.3	8.0	9	18.8
IPE AA-200	196.4	100	4.5	6.7	12	17.08
IPE-200	200	100	5.5	8.5	12	22.4



H Beam

AVAILABLE STEEL GRADE	H BEAM
Q355B, Q355D A36, A572 Gr 50 S235JR, S355JR SS400	

DIMENSION IN BOLD IN BELOW TABLES FOR H BEAM ARE RECOMMENDED

ITEM	HPB (mm) NOMINAL SIZE	t1 (mm)	t2 (mm)
HW	100*100, 125*125, 150*150, 175*175, 200*200, 250*250, 300*300, 350*350, 400*400	6 - 45	8 - 35
HM	150*100, 200*150, 250*175, 300*200, 350*250, 400*300, 450*300, 500*300, 600*300	6 - 14	9 - 23
HN	100*150, 125*160, 150*175, 175*190, 200*190, 250*195, 300*160, 350*175, 400*150, 400*250, 450*150, 450*250, 500*150, 500*200, 600*200, 700*300, 800*300, 900*300	5 - 18	7 - 28

HW, HM, HN STAND FOR H BEAMS WITH WIDE FLANGE, MEDIUM FLANGE, NARROW FLANGE SEPARATELY.



Coil and Plate



Galvanized Steel Coil

SPECIFICATION

Thickness: 0.25-4.0mm; **Width:** 900-1250mm

Zinc Coating: 80-275g/m²

Internal Diameter: 508mm or 610mm

Coil Weight: 4-BMT

Quality: commercial and structural quality

Surface Treatment: zero spangle, regular spangle, minimum spangle, oiled & dry, chromated.

Standards: JIS G 3302, ASTM A 653M, EN 10327

Steel Grade: SGCC, DX51D+Z, S250GD, S280GD, S350GD

Usage: widely used in building materials, light industrial, transportation and farming. Such as for making steel profile for wall and roofing, T-bar, studs, fireproof door, air conditioning duct, enclosure of home appliance, kitchen appliance etc.

Pre-painted Galvanized Steel Coil

SPECIFICATION

Thickness: 0.25-1.2mm (BMT)

Width: 900-1250mm

Zinc Coating: 80-275g/m²

Color: according to RAL color list (PE/PD/PF coating)

Internal Diameter: 508mm or 610mm

Coil Weight: 4-BMT

Quality: commercial and structural quality

Standard: JIS G 3312, ASTM A755M, EN 10169

Steel Grade: CGCC, DX51D+Z, S250GD, S280GD, S350GD

Usage: widely used in building materials, light industrial, transportation and farming. Such as for making steel profile for wall and roofing, sandwich panel, corrugated sheet, T-bar, home appliance, kitchen appliance etc.



Hot Rolled Steel Plate

SPECIFICATION

Thickness: 6—200mm;

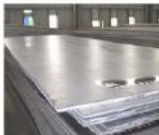
Width: 1524—5000mm; **Length:** 6000—16000mm;

Steel Grade: S540L, S460, A36, A572, G40, S235Z75, S355JR, S390L, A514, A516, G960/70...

Thickness: 6—60mm;

Width: 1800—3500mm; **Length:** 6000—11000mm

Hot Rolling Plate: Grade A, B, AH, 32/36, D, DH, 42/36, E, EH, 32/36



Hot Rolled Steel Coil

SPECIFICATION

Thickness: 1.8mm—20mm;

Width: 940mm—2010mm

Standard: Japanese industry standard, Germany industry standard, American standard, American Petroleum Institute standard

Steel Grade: S540L, SPHC, SPHT, V12, SAE1006/1006, S235Z75, JFL, AP5L, X5065/70

Usage: raw materials for producing cold rolling steel coils; raw materials in industrial, such as making pipe, container, ship, automobile, etc.



Cold Rolled Steel Coil

SPECIFICATION

Thickness: 0.2—2.0mm; **Width:** 1000—1250mm;

Standard: JISG 3141—2005, EN10130/EN10139

Steel Grade: SPCC, SPCCD, SPCE, SPCEH, DC01(S12), DC03(S13), DC04(S14, S15)

Technical Treatment of Cold Rolled Steel Coil: Bright, annealed, Fatig, cold hardness and so on.

Usage: widely used in construction, transportation and other industries, such as motorcycles, lifting apparatuses, Door-making, appliance, furniture, pipe, tank, refrigerators, washers, dryer; also materials for producing galvanized steel coils and pre-painted galvanized steel coils.



All Staff of Tianjin Youfa International Trade Co., Ltd



Tianjin Youfa Steel Pipe Group Culture

Mission of Youfa: 友发的使命

Personal Mastery: 超越自我

Supporting Partners: 成就伙伴

Youfa Centuries: 百年友发

Harmony Building: 共建和谐

Vision of Youfa: 友发的愿景

Steel pipe industry orientation: 立足钢管行业

All-round-champion pursuit: 追求全能冠军

Core value of Youfa: 核心价值观

Honesty is the basis, mutually benefited: 共赢互利信为本

Virtue is the first, forging ahead together: 同心并进德为先

Spirit of Youfa: 友发的精神

Self-disciplined and Altruism: 律己利他

Cooperation and Progress: 合作进取