



天津友发集团
YOUFA STEEL PIPE GROUP

China Top 500
Enterprises Industry
Leading Brands



GALVANIZED STEEL PIPE

**天津友圣发
国际贸易有限公司**

Tianjin Youfa International Trade Co.,Ltd

Profile of the Group

Tianjin Youfa Steel Pipe Group Co., Ltd. was established on July 1, 2000, and its headquarters is located in Tianjin Daquizhuang Town, the largest steel pipe production base in China. The company is a large scale steel pipe manufacturing enterprise integrating the production of various pipe products such as ERW steel pipe, spiral welded pipe, hot-dip galvanized steel pipe, plastic lining composite pipe, plastic coated steel pipe, square and rectangular steel pipe, hot-dip galvanized square and rectangular steel pipe, stainless Steel Pipe, pipe fitting and scaffolding, etc. Output is over 10 million tons every year.

In addition to its headquarters in Tianjin, the company currently has a number of subsidiaries in Tangshan, Handan, Shaanxi, Liyang and other cities, with more than 9000 employees, 293 production lines of steel pipe and scaffolding, 3 national accreditation laboratories and 2 Tianjin accreditation enterprise technology centers. In 2022, the annual sales of Youfa steel pipes will be nearly 20 million tons. By the end of 2017, the whole group had 88 utility model patents and 4 invention patents. There are 32 patents in the process of application and acceptance. Since 2010, Youfa's steel pipe production and sales have increased by more than one million tons annually for 12 consecutive years.

The "Youfa" was recognized as a well known trademark in China by the Trademark Office of the State Administration for Industry and Commerce in March 2008. Youfa Group products have been awarded the title of "Tianjin Famous-brand Products" by the Tianjin Municipal Government for many consecutive years. The steel pipes of "Youfa" brand and "Zhengjinyuan" brand won the Gold Cup Award, the highest award in China's metallurgical industry. Until 2022, Tianjin Youfa Steel Pipe Group has been among the top 500 Chinese enterprises, the top 500 Chinese manufacturing enterprises and the top 500 Chinese private enterprises for 17 consecutive years, and has maintained its leading position in the industry in terms of national production and sales volume for 17 consecutive years.



"Youfa" brand steel pipes sell well all over the country and are widely used in key national projects such as Three Gorges Project, Capital International Airport, Shanghai Pudong International Airport, the 2008 Olympic Games venues, and 2010 Shanghai World Expo exhibition hall. They are exported to 100 countries and regions in European Union, North America, South America, Africa, South-east Asia, and the Middle East. They are recognized by the industry as the first brand in the industry, with a domestic comprehensive market share of more than 30%.

Tianjin Youfa Steel Pipe Factory

Production Base	Factory Name	Products Name	Production Lines	
Tianjin Production Base	Tianjin Youfa Steel Pipe Group Co.,Ltd.-No.1 Branch Company;	Hot Dipped Galvanized Steel Pipe	16	
		ERW Steel Pipe	9	
	Tianjin Youfa Steel Pipe Group Co.,Ltd.-No.2 Branch Company;	ERW Steel Pipe	7	
		Square/Rectangular Steel Pipe	15	
	Tianjin Youfa Dezhong Steel Pipe Co.,Ltd;	Galvanized Square/Rectangular steel Pipe	6	
		SSAW Steel Pipe	5	
	Tianjin Youfa Pipeline Technology Co.,Ltd;	Steel Pipe of Lining Plastic	10	
		Plastic Coated Steel Pipe	3	
	Tianjin Youfa Ruida Traffic Facilities Co.,Ltd	Highway Materials	9	
	Tianjin Youfa Stainless Steel Pipe Co., Ltd;	Stainless Steel Pipe	10	
		Stainless Steel Pipe Fitting	5	
	Tangshan Production Base	Tangshan Zhengyuan Pipeline Industry Co., Ltd.;	Hot Dipped Galvanized Steel Pipe	12
			ERW Steel Pipe	17
Steel Pipe of Lining Plastic			4	
Tangshan Youfa Steel Pipe Manufacture Co.,Ltd;		ERW Steel Pipe	11	
		ERW Steel Pipe	11	
Tangshan Youfa New Construction Equipment Co.,Ltd		Galvanize	12	
		Ringlock Scaffolding System	9	
Handan Production Base		Handan Youfa Steel Pipe Co.,Ltd;	Hot Dipped Galvanized Steel Pipe	8
			ERW Steel Pipe	12
			Square/Rectangular Steel Pipe	13
	Galvanized Square/Rectangular Steel Pipe		4	
	SSAW Steel Pipe		4	
	Steel Pipe of Lining Plastic		4	
Shaanxi Production Base	Shaanxi Youfa Steel Pipe Co.,Ltd;	Hot Dipped Galvanized Steel Pipe	6	
		ERW Steel Pipe	12	
		Square/Rectangular Steel Pipe	6	
		Galvanized Square/Rectangular Steel Pipe	3	
		Steel Pipe of Lining Plastic	3	
Liyang Production Base	Jiangsu Youfa Steel Pipe Co.,Ltd;	Hot Dipped Galvanized Steel Pipe	6	
		ERW Steel Pipe	10	
		Square/Rectangular Steel Pipe	9	
Huludao Production Base	Huludao City Steel Pipe Industrial Co.,Ltd;	Welded Steel Oil Pipe	15	
	Chengdu Yunganglian Logistics Co.,Ltd;	Logistics Centre		
Total			293	



TIANJIN YOUFA PRODUCTION BASE



TANGSHAN YOUFA PRODUCTION BASE



HANDAN YOUFA PRODUCTION BASE



SHAANXI YOUFA PRODUCTION BASE



LIYANG YOUFA PRODUCTION BASE



HULUDAO YOUFA PRODUCTION BASE

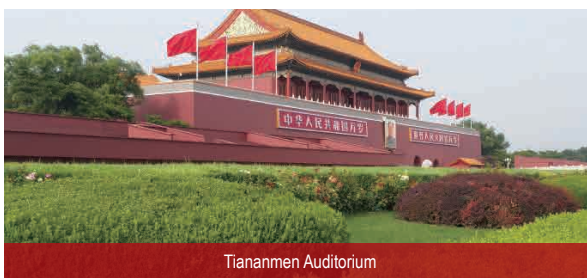
Projects at Home and Abroad



Beijing Daxing International Airport



Olympic Stadium Bird's Nest



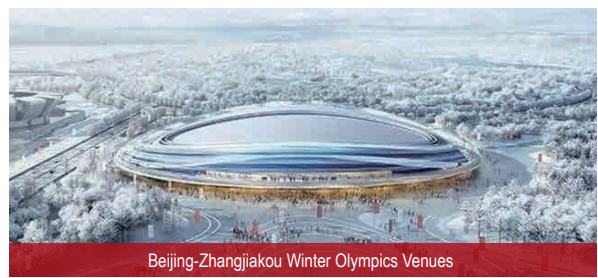
Tiananmen Auditorium



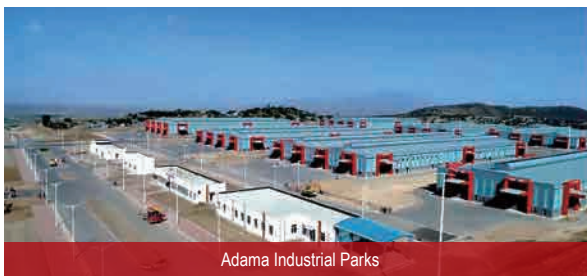
Beijing Capital International Airport



Shanghai Pudong International Airport



Beijing-Zhangjiakou Winter Olympics Venues



Adama Industrial Parks



Cong ty TNHH Gain Lucky Textile Factory

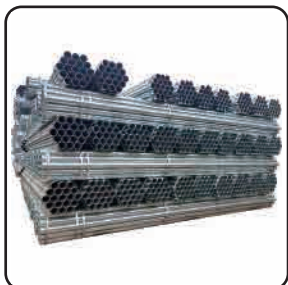


Bolivia Civil Gas Pipeline



Chevron Corporation Oil Platform

Galvanized Steel Pipe



Diameter: 21.3mm to 508mm

Thickness: 1.2mm to 16.0mm

Zinc coated: usually 200g/m² (30um) or as required 200 to 500g/m² (30 to 70um)

Standard: ASTM A53, API 5L, ASTM A252, ASTM A795, ISO65, DIN2440, BS1387. BS1139, EN10255, EN39, JIS3444, GB/T 3091 & GB/T13793

Application: Construction / building materials steel pipe, Steel structure, Fence post steel pipe, Scaffolding pipe, Fire protection steel pipe, Greenhouse steel pipe, Low pressure liquid, water, gas, oil, line pipe, Irrigation pipe, Handrail pipe.

Hot Dipped Galvanized Steel Pipe

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

Shaanxi Youfa Steel Pipe Co., Ltd

Jiangsu Youfa Steel Pipe Co.,Ltd;



Zinc layer thickness

Loading transportation

Diameter test

Measuring wall thickness



Tangshan Zhengyuan Hot Dipped Galvanized Steel Pipe Yard



Hot Dipped Galvanized Spiral Welded Steel Pipe



Hot Dipped Galvanized ERW Steel Pipe

BS 1387/85 Steel Tubes and Tubulars Suitable for Screwing to BS 21 Pipe Threads

Series	Nominal Size		Outside Diameter				Wall Thickness		Mass of Black Tube					
			Max		Min				Plain End			Screwed and Socketed		
			-	DN	in	mm	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft
Light	1/2	15	0.841	21.4	0.825	21.0	0.080	2.0	0.636	0.289	0.947	0.646	0.293	0.956
	3/4	20	1.059	26.9	1.041	26.4	0.090	2.3	0.927	0.421	1.38	0.954	0.433	1.39
	1	25	1.328	33.8	1.309	33.2	0.104	2.6	1.330	0.604	1.98	1.360	0.617	2
	1 1/4	32	1.670	42.5	1.650	41.9	0.104	2.6	1.710	0.774	2.54	1.750	0.794	2.57
	1 1/2	40	1.903	48.4	1.882	47.8	0.116	2.9	2.170	0.985	3.23	2.220	1.010	3.27
	2	50	2.370	60.2	2.347	59.6	0.116	2.9	2.740	1.240	4.08	2.810	1.270	4.15
	2 1/2	65	2.991	76.0	2.960	75.2	0.126	3.2	3.840	1.740	5.71	3.980	1.810	5.83
	3	80	3.491	88.7	3.460	87.9	0.126	3.2	4.520	2.050	6.72	4.490	2.130	6.89
Medium	4	100	4.481	113.9	4.450	113.0	0.142	3.6	6.550	2.970	9.75	6.840	3.100	10
	1/2	15	0.586	21.7	0.831	21.1	0.104	2.6	0.813	0.369	1.21	0.828	0.376	1.22
	3/4	20	1.072	27.2	1.047	26.6	0.104	2.6	1.050	0.475	1.56	1.070	0.485	1.57
	1	25	1.346	34.2	1.316	33.4	0.126	3.2	1.620	0.735	2.41	1.650	0.748	2.43
	1 1/4	32	1.687	42.9	1.657	42.1	0.126	3.2	2.080	0.945	3.1	2.130	0.966	3.13
	1 1/2	40	1.919	48.8	1.889	48.0	0.126	3.2	2.400	1.090	3.57	2.460	1.120	3.61
	2	50	2.394	60.8	2.354	59.8	0.142	3.6	3.380	1.530	5.03	3.470	1.570	5.1
	2 1/2	65	3.014	76.6	2.969	75.4	0.142	3.6	4.320	1.960	6.43	4.460	2.020	6.55
	3	80	3.524	89.5	3.469	88.1	0.157	4.0	5.620	2.550	8.37	5.800	2.630	8.54
	4	100	4.524	114.9	4.459	113.3	0.177	4.5	8.200	3.720	12.2	8.340	3.780	12.5
Heavy	5	125	5.534	140.6	5.549	138.7	0.196	5.0	11.15	5.060	16.6	11.20	5.080	17.1
	6	150	6.539	166.1	6.459	164.1	0.196	5.0	13.24	6.000	19.7	13.30	6.030	20.3
	1/2	15	0.856	21.7	0.831	21.1	0.126	3.2	0.968	0.439	1.44	0.983	0.446	1.45
	3/4	20	1.072	27.2	1.047	26.6	0.126	3.2	1.260	0.570	1.87	1.280	0.581	1.88
	1	25	1.346	34.2	1.136	33.4	0.157	4.0	1.980	0.896	2.94	2.010	0.912	2.96
	1 1/4	32	1.687	42.9	1.657	42.1	0.157	4.0	2.550	1.160	3.8	2.600	1.180	3.83
	1 1/2	40	1.919	48.8	1.889	48.0	0.157	4.0	2.940	1.340	4.38	3.010	1.370	4.42
	2	50	2.394	60.8	2.354	59.8	0.177	4.5	4.160	1.890	6.19	4.190	1.900	6.26
	2 1/2	65	3.014	76.6	2.969	75.4	0.177	4.5	5.330	2.420	7.93	5.390	2.440	8.05
	3	80	3.524	89.5	3.469	88.1	0.196	5.0	6.920	3.140	10.3	6.870	3.120	10.5
4	100	4.524	114.9	4.459	113.3	0.212	5.4	9.740	4.420	14.5	9.910	4.500	14.8	
5	125	5.534	140.6	5.459	138.7	0.212	5.4	12.30	5.460	17.9	12.30	5.580	18.4	
6	150	6.539	166.1	6.459	164.1	0.212	5.4	14.31	6.490	21.3	14.70	6.670	21.9	





ASTM A53 Welded Pipes / A106 Seamless Pipes

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

Note 1.1psi=0.07031kg/cm ² 2.1lb/ft=0.45359kg/ft								
NPS Designator	DN Designator	Specified Outside Diameter, in.(mm)	Specified Wall Thickness, in.(mm)	Nominal Weight (Mass) per Unit Length, Plain End, lb/ft(kg/m)	Weight Class	Schedule No.	Test Pressure, psi [mPa]	
							Grade A	Grade B
1/2	15	0.840(21.3)	0.109(2.77)	0.86(1.27)	STD	40	700(4.8)	700(4.8)
			0.147(3.73)	1.09(1.62)	XS	80	850(5.9)	850(5.9)
			0.294(7.47)	1.72(2.54)	XXS	–	1000(6.9)	1000(6.9)
3/4	20	1.050(26.7)	0.113(2.87)	1.14(1.69)	STD	40	700(4.8)	700(4.8)
			0.154(3.91)	1.48(2.21)	XS	80	850(5.9)	850(5.9)
			0.308(7.82)	2.45(3.64)	XXS	–	1000(6.9)	1000(6.9)
1	25	1.315(33.4)	0.133(3.38)	1.69(2.50)	STD	40	700(4.8)	700(4.8)
			0.179(4.55)	2.19(3.25)	XS	80	850(5.9)	850(5.9)
			0.358(9.09)	3.66(5.45)	XXS	–	1000(6.9)	1000(6.9)
1 1/4	32	1.660(42.2)	0.140(3.56)	2.28(3.40)	STD	40	1000(6.9)	1100(7.6)
			0.191(4.85)	3.03(4.49)	XS	80	1500(10.3)	1600(11.0)
			0.382(9.70)	5.23(7.76)	XXS	–	1800(12.4)	1900(13.1)
1 1/2	40	1.900(48.3)	0.145(3.68)	2.74(4.04)	STD	40	1000(6.9)	1100(7.6)
			0.200(5.08)	3.65(5.39)	XS	80	1500(10.3)	1600(11.0)
			0.400(10.16)	6.41(9.56)	XXS	–	1800(12.4)	1900(13.1)
2	50	2.375(60.3)	0.154(3.91)	3.68(5.46)	STD	40	2300(15.9)	2500(17.2)
			0.218(5.54)	5.08(7.55)	XS	80	2500(17.2)	2500(17.2)
			0.436(11.07)	9.06(13.44)	XXS	–	2500(17.2)	2500(17.2)
2 1/2	65	2.875(73.0)	0.203(5.16)	5.85(8.67)	STD	40	2500(17.2)	2500(17.2)
			0.276(7.01)	7.75(11.52)	XS	80	2500(17.2)	2500(17.2)
			0.552(14.02)	13.72(20.39)	XXS	–	2500(17.2)	2500(17.2)
3	80	3.500(88.9)	0.216(5.49)	7.68(11.35)	STD	40	2200(15.2)	2500(17.2)
			0.300(7.62)	10.35(15.39)	XS	80	2500(17.2)	2500(17.2)
			0.600(15.24)	18.60(27.66)	XXS	–	2500(17.2)	2500(17.2)
3 1/2	90	4.000(101.6)	0.226(5.74)	9.27(13.71)	STD	40	2000(13.8)	2400(16.5)
			0.318(8.08)	12.67(18.82)	XS	80	2800(19.3)	2800(19.3)
			0.237 (6.02)	10.92(16.23)	STD	40	1900 (13.1)	2200 (15.2)
4	100	4.500(114.3)	0.337 (8.56)	15.20(22.60)	XS	80	2700 (18.6)	2800 (19.3)
			0.674(17.12)	27.62(41.09)	XXS	–	2800 (19.3)	2800 (19.3)
			0.258 (6.55)	14.90(22.07)	STD	40	1700 (11.7)	1900 (13.1)
5	125	5.563(141.3)	0.375 (9.52)	21.04(31.42)	XS	80	2400 (16.5)	2800 (19.3)
			0.750(19.05)	38.63(57.53)	XXS	–	2800 (19.3)	2800 (19.3)
			0.280 (7.11)	19.34(28.58)	STD	40	1500 (10.3)	1800 (12.4)
6	150	6.625(168.3)	0.432(10.97)	28.88(43.05)	XS	80	2300 (15.9)	2700 (18.6)
			0.864(21.95)	53.19(79.18)	XXS	–	2800(19.3)	2800(19.3)
			0.277 (7.04)	25.53(38.07)	–	30	1200 (8.3)	1300 (9.0)
8	200	8.625(219.1)	0.322 (8.18)	29.35(43.73)	STD	40	1300 (9.0)	1600 (11.0)
			0.500(12.70)	44.00(65.41)	XS	80	2100(14.5)	2400 (16.5)
			0.875(22.22)	72.69(107.94)	XXS	–	2800 (19.3)	2800 (19.3)
10	250	10.750(273.0)	0.279 (7.09)	32.33(48.80)	–	–	950 (6.5)	1100 (7.6)
			0.307 (7.80)	35.33(53.27)	–	30	1000 (6.9)	1200 (8.3)
			0.365 (9.27)	41.49(63.36)	STD	40	1200 (8.3)	1400 (9.7)
			0.500(12.70)	55.55(83.17)	XS	60	1700 (11.7)	2000 (13.8)
12	300	12.750(323.8)	0.330 (8.38)	45.47(67.72)	–	30	950 (6.5)	1100 (7.6)
			0.375 (9.52)	51.28(76.21)	STD	–	1100 (7.6)	1200 (8.3)
			0.500(12.7)	66.91(99.4)	XS	–	1400 (9.7)	1600 (11.0)

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 10 A									
NPS Designator	DN Designator	Outside Diameter		Wall Thickness		Weight Plain End		Test Pressure Seamless and Electric-Resistance-Welded	
		in	mm	in	mm	lb/ft	kg/m	psi	MPa
3/4	20	1.05	26.7	0.083	2.11	0.86	1.28	700	4.8
1	25	1.315	33.4	0.109	2.77	1.41	2.09	700	4.8
1 1/4	32	1.66	42.2	0.109	2.77	1.81	2.69	1000	6.9
1 1/2	40	1.9	48.3	0.109	2.77	2.09	3.11	1000	6.9
2	50	2.375	60.3	0.109	2.77	2.64	3.93	1000	6.9
2 1/2	65	2.875	73	0.12	3.05	3.53	5.26	1000	6.9
3	80	3.5	88.9	0.12	3.05	4.34	6.46	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	7.78	11.58	1200	8.3
6	150	6.625	168.3	0.134	3.4	9.3	13.85	1000	6.9
8	200	8.625	219.1	0.188	4.78	16.96	25.26	800	5.5
10	250	10.75	273.1	0.188	4.78	21.23	31.62	700	4.8

Dimensions, Weights, Test Pressures For Standard-Weight Fire Protection Pipe—Schedule 30 and Schedule 40									
NPS Designator	DN Designator	Outside Diameter		Wall Thickness		Weight Plain End		Test Pressure Seamless and Electric-Resistance-Welded	
		in	mm	in	mm	lb/ft	kg/m	psi	MPa
1/2	15	0.84	21.3	0.109	2.77	0.85	1.27	700	4.8
3/4	20	1.05	26.7	0.113	2.87	1.13	1.68	700	4.8
1	25	1.315	33.4	0.133	3.38	1.68	2.5	700	4.8
1 1/4	32	1.66	42.2	0.14	3.58	2.27	3.4	1000	6.9
1 1/2	40	1.9	48.3	0.145	3.68	2.72	4.07	1000	6.9
2	50	2.375	60.3	0.154	3.91	3.66	5.5	1000	6.9
2 1/2	65	2.875	73	0.203	5.16	5.8	8.68	1000	6.9
3	80	3.5	88.9	0.216	5.49	7.58	11.35	1000	6.9
3 1/3	90	4	101.6	0.226	5.74	9.12	13.71	1200	8.3
4	100	4.5	114.3	0.237	6.02	10.8	16.25	1200	8.3
5	125	5.563	141.3	0.258	6.55	14.63	22.07	1200	8.3
6	150	6.625	168.3	0.28	7.11	18.99	28.6	1200	8.3
8	200	8.625	219.1	0.277	7.04	24.72	38.09	1200	8.3
10	250	10.75	273.1	0.307	7.8	34.27	53.29	1000	6.9

Note 1.1psi=0.07031kg/cm² 2.1lb/ft=0.45359kg/ft



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

DN	Designation of Thread	Outside Diameter D (mm)	Thicknesses (T) and masses per unit length (M) according to the series											
			Heavy Series			Medium Series			Light Series 1			Light Series 2		
			T (mm)	Plain End	Screwed Socketed	T (mm)	Plain End	Screwed Socketed	T (mm)	Plain End	Screwed Socketed	T (mm)	Plain End	Screwed Socketed
				M (kg/m)	M (kg/m)		M (kg/m)	M (kg/m)		M (kg/m)	M (kg/m)		M (kg/m)	
6	1/8	10.2	2.6	0.487	0.49	2	0.404	0.407	1.8	0.366	0.369	1.8	0.36	0.363
8	1/4	13.5	2.9	0.765	0.769	2.3	0.641	0.645	2	0.57	0.574	1.8	0.515	0.519
10	3/8	17.2	2.9	1.02	1.03	2.3	0.839	0.845	2	0.742	0.748	1.8	0.67	0.676
15	1/2	21.3	3.2	1.44	1.45	2.6	1.21	1.22	2.3	1.08	1.09	2	0.947	0.956
20	3/4	26.9	3.2	1.87	1.88	2.6	1.56	1.57	2.3	1.39	1.4	2.3	1.38	1.39
25	1	33.7	4	2.93	2.95	3.2	2.41	2.43	2.9	2.2	2.22	2.6	1.98	2
32	1 1/4	42.4	4	3.79	3.82	3.2	3.1	3.13	2.9	2.82	2.85	2.6	2.54	2.57
40	1 1/2	48.3	4	4.37	4.41	3.2	3.56	3.6	2.9	3.24	3.28	2.9	3.23	3.27
50	2	60.3	4.5	6.19	6.26	3.6	5.03	5.1	3.2	4.49	4.56	2.9	4.08	4.15
65	2 1/2	76.1	4.5	7.93	8.05	3.6	6.42	6.54	3.2	5.73	5.85	3.2	5.71	5.83
80	3	88.9	5	10.3	10.5	4	8.36	8.53	3.6	7.55	7.72	3.2	6.72	6.89
100	4	114.3	5.4	14.5	14.8	4.5	12.2	12.5	4	10.8	11.1	3.6	9.75	10
125	5	139.7	5.4	17.9	18.4	5	16.6	17.1						
150	6	165.1	5.4	21.3	21.9	5	19.8	20.4						



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

Series	Nominal Size		Outside Diameter				Wall Thickness		Mass of Black Tube					
			Max		Min				Plain End			Screwed and Socketed		
	-	DN	in	mm	in	mm	in	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m
L	1/2	15	0.854	21.7	0.827	21.0	0.091	2.3	0.726	0.329	1.08	0.732	0.332	1.09
	3/4	20	1.067	27.1	1.039	26.4	0.091	2.3	0.941	0.427	1.4	0.947	0.430	1.41
	1	25	1.339	34.0	1.307	33.2	0.114	2.9	1.478	0.671	2.2	1.492	0.677	2.22
	1 1/4	32	1.681	42.7	1.650	41.9	0.114	2.9	1.895	0.860	2.82	1.915	0.869	2.85
	1 1/2	40	1.913	48.6	1.882	47.8	0.114	2.9	2.184	0.991	3.25	2.211	1.003	3.29
	2	50	2.390	60.7	2.346	59.6	0.126	3.2	3.031	1.375	4.51	3.078	1.396	4.58
	2 1/2	65	2.992	76.0	2.961	75.2	0.126	3.2	3.864	1.753	5.75	3.944	1.789	5.87
	3	80	3.492	88.7	3.461	87.9	0.126	3.2	4.543	2.060	6.76	4.657	2.112	6.93
	3 1/2	90	3.984	101.2	3.949	100.3	0.142	3.6	5.846	2.652	8.7	5.967	2.707	8.88
	4	100	4.484	113.9	4.449	113.0	0.142	3.6	6.605	2.996	9.83	6.787	3.078	10.1
	5	125	5.543	140.8	5.453	138.5	0.117	4.5	10.080	4.572	15	10.416	4.724	15.5
	6	150	6.555	166.5	6.453	163.9	0.117	4.5	11.961	5.425	17.8	12.364	5.608	18.4
L1	1/2	15	0.854	21.7	0.827	21.0	0.091	2.3	0.726	0.329	1.08	0.732	0.332	1.09
	3/4	20	1.067	27.1	1.039	26.4	0.091	2.3	0.934	0.424	1.39	0.941	0.427	1.4
	1	25	1.339	34.0	1.307	33.2	0.114	2.9	1.478	0.671	2.2	1.492	0.677	2.22
	1 1/4	32	1.681	42.7	1.650	41.9	0.114	2.9	1.895	0.860	2.82	1.915	0.869	2.85
	1 1/2	40	1.913	48.6	1.882	47.8	0.114	2.9	2.177	0.988	3.24	2.204	1.000	3.28
	2	50	2.390	60.7	2.346	59.6	0.126	3.2	3.017	1.369	4.49	3.064	1.390	4.56
	2 1/2	65	3.004	76.3	2.961	75.2	0.126	3.2	3.850	1.747	5.73	3.931	1.783	5.85
	3	80	3.520	89.4	3.461	87.9	0.142	3.6	5.073	2.301	7.55	5.188	2.353	7.72
	4	100	4.524	114.9	4.449	113.0	0.157	4.0	7.257	3.292	10.8	7.459	3.383	11.1
L2	1/2	15	0.843	21.4	0.827	21.0	0.079	2.0	0.636	0.289	0.947	0.642	0.291	0.956
	3/4	20	1.059	26.9	1.039	26.4	0.091	2.3	0.927	0.421	1.38	0.934	0.424	1.39
	1	25	1.331	33.8	1.307	33.2	0.102	2.6	1.331	0.604	1.98	1.344	0.610	2
	1 1/4	32	1.673	42.5	1.650	41.9	0.102	2.6	1.707	0.774	2.54	1.727	0.783	2.57
	1 1/2	40	1.906	48.4	1.882	47.8	0.114	2.9	2.170	0.985	3.23	2.197	0.997	3.27
	2	50	2.370	60.2	2.346	59.6	0.114	2.9	2.742	1.244	4.08	2.789	1.265	4.15
	2 1/2	65	2.992	76.0	2.961	75.2	0.126	3.2	3.837	1.740	5.71	3.918	1.777	5.83
	3	80	3.492	88.7	3.461	87.9	0.126	3.2	4.516	2.048	6.72	4.630	2.100	6.89
	4	100	4.484	113.9	4.449	113.0	0.142	3.6	6.552	2.972	9.75	6.720	3.048	10
H	1/2	15	0.858	21.8	0.827	21.0	0.126	3.2	0.968	0.439	1.44	0.974	0.442	1.45
	3/4	20	1.075	27.3	1.043	26.5	0.126	3.2	1.257	0.570	1.87	1.263	0.573	1.88
	1	25	1.346	34.2	1.311	33.3	0.157	4.0	1.969	0.893	2.93	1.982	0.899	2.95
	1 1/4	32	1.689	42.9	1.654	42.0	0.157	4.0	2.547	1.155	3.79	2.567	1.164	3.82
	1 1/2	40	1.921	48.8	1.886	47.9	0.157	4.0	2.937	1.332	4.37	2.963	1.344	4.41
	2	50	2.394	60.8	2.350	59.7	0.177	4.5	4.159	1.887	6.19	4.207	1.908	6.26
	2 1/2	65	3.016	76.6	2.965	75.3	0.177	4.5	5.329	2.417	7.93	5.409	2.454	8.05
	3	80	3.524	89.5	3.465	88.0	0.197	5.0	6.921	3.139	10.3	7.056	3.200	10.5
	4	100	4.528	115.0	4.453	113.1	0.213	5.4	9.744	4.420	14.5	9.945	4.511	14.8
	5	125	5.543	140.8	5.453	138.5	0.213	5.4	12.028	5.456	17.9	12.364	5.608	18.4
	6	150	6.555	166.5	6.453	163.9	0.213	5.4	14.313	6.492	21.3	14.716	6.675	21.9
	M	1/2	15	0.858	21.8	0.827	21.0	0.102	2.6	0.813	0.369	1.21	0.820	0.372
3/4		20	1.075	27.3	1.043	26.5	0.102	2.6	1.048	0.475	1.56	1.055	0.479	1.57
1		25	1.346	34.2	1.311	33.3	0.126	3.2	1.619	0.735	2.41	1.633	0.741	2.43
1 1/4		32	1.689	42.9	1.654	42.0	0.126	3.2	2.083	0.945	3.1	2.103	0.954	3.13
1 1/2		40	1.921	48.8	1.886	47.9	0.126	3.2	2.392	1.085	3.56	2.419	1.097	3.6
2		50	2.394	60.8	2.350	59.7	0.142	3.6	3.380	1.533	5.03	3.427	1.554	5.1
2 1/2		65	3.016	76.6	2.965	75.3	0.142	3.6	4.314	1.957	6.42	4.395	1.993	6.54
3		80	3.524	89.5	3.465	88.0	0.157	4.0	5.618	2.548	8.36	5.732	2.600	8.53
4		100	4.528	115.0	4.453	113.1	0.177	4.5	8.198	3.179	12.2	8.400	3.810	12.5
5		125	5.543	140.8	5.453	138.5	0.197	5.0	11.155	5.060	16.6	11.491	5.212	17.1
6	150	6.555	166.5	6.453	163.9	0.197	5.0	13.305	6.035	19.8	13.703	6.218	20.4	



天津友发集团
YOUFA STEEL PIPE GROUP



**23 YEARS EXPERIENCE IN MANUFACTURING
STEEL PRODUCTS SINCE 2000**

ADD: Floor 7.NO 4 Anshun Building, Dafeng Road(Aqua city).
Hongqiao Distr ., Tianjin City, China 300120

www.youfasteelpipe.com / www.chinayoufa.com

