

easysteel.TM

A FLETCHER BUILDING COMPANY



PIPE & PIPE FITTINGS BOOK

MAY 2016

Experience our can-do attitude.

As part of the Fletcher Steel family, the team at Easysteel bring a passion to what we do and how we do it. Individually and collectively through our diversity, scale and expertise across the business, we become a force to be reckoned with.

We believe in being game changers, delivering excellence in engineering and construction, while bringing together the best products, that showcase our innovation and willingness to doing things differently - bringing your projects to life!

No matter who you talk to, you get someone who cares about giving you what you need; each and every time. That's how we're working together for you.

Fletcher Steel™



easysteel.

R Fletcher
Reinforcing

Fletcher
Wire products™

Pacific
COILCOATERS

Dimond Roofing
GET THE EDGE

Dimond Structural

CSP
PACIFIC

1.

**We care.
Building relationships on trust.**

It's naturally our way. Our team culture is based on caring about our colleagues and customers, caring about getting it right and seeing the end result come to life. Trust in us to deliver you the very best result for your next project.

2.

**Together, the power of one.
Your service experience.**

We're a diverse bunch of people with expert skills and capabilities. Only by working together can we achieve greatness and success. We all play a part and this ultimately creates a unique experience for you - our customers.

3.

**Getting the details right.
Saving you time.**

Nothing is better or more satisfying than getting the job right first time. Together, if we're all over the detail, this means a positive experience for you. Every small step taken makes a difference to our customers. We thrive on a challenge and we're always in your corner.

4.

**Our people first culture drives results.
Everyone is in it for the long haul.**

When we all care about the outcome it drives a culture change among our team. Every one of us is working together to bring you the very best. It's not only in our name but in our actions - experience the difference.

5.

**Making the difference in your projects.
Sharing in your success.**

We want you to choose Fletcher Steel, and our desire is to make this happen, because when you're happy we're happy. It needs to be an easy decision working with us and choosing our product. We're committed to giving you what you need - after all, steel is our business.



Introduction

Easysteel is a part of Fletcher Steel Limited. The company prides itself on its position as a leading steel distributor in New Zealand providing a comprehensive range of products and services to meet the needs of this market.

The Steel Book is a directory of products and services available from Easysteel and is provided as a guide to assist customers when determining their requirements.

It is by no means an exhaustive list of the company's service portfolio. For in this dynamic environment, operating within a more prevalent global economy, the range of products and services that Easysteel offers is ever changing.



The Steel Book is a part of our full range of publications outlining our product offer. We also have available, The Special Steels Book and The Steel & Wire Book. See our website or ask your Easysteel Sales Representative for a copy of any of these publications.

Every care has been taken by staff in producing this catalogue. Easysteel has endeavoured to ensure accuracy of the information contained herein, however Easysteel cannot and does not accept responsibility for any loss or damage sustained by any party through use of this information.

Introduction

Quality

Easysteel continues to maintain a strong commitment to the principles of total quality management. This results in minimum waste, improved efficiencies and a service promise which meets customer requirements. Easysteel has a philosophy of continuous improvement in all areas of its business.

Service

At Easysteel, we pride ourselves in providing the best service in the Industry. High standards of service throughout the business is a focus for all our teams.

Technical Advice

Easysteel provides technical expertise on all products and services it markets. Specialist advice is available on product properties, product selection and specific end use application. Any advice given should subsequently be authorised by a qualified engineer.

Suppliers

Easysteel has a centrally based supply chain which leverages its strong relationship with suppliers to provide highly competitive offers to its customers. These offers are sourced globally from quality steel mills and suppliers which enables its customers to compete in both domestic and export markets.

Health, Safety & Environment

At Easysteel, our safety goal is zero harm. Health and Safety is our highest priority, not only for all employees, but also for our customers, suppliers, contractors and visitors. We take a pro-active approach in regards to Health, Safety & Environment, and we are continually developing and implementing systems to ensure our workplace is a safe one. At Easysteel, everyone is responsible for ensuring that we are working in a safe manner -

Because we want to... not because we have to!

Contents

Line Pipe	6
Seamless Line Pipe	8
ERW Line Pipe	14
General Purpose Pipe	15
High Strength / Light Wall Pipe	16
Boiler Heated Tubes	17
Precision Tubes	20
Wrought Steel Fittings	25
Malleable Iron Pipe Fittings	26
Butt Weld Fittings	27
Forged High Pressure Fittings	32
Flanges	33
Masterklamp Fittings	35
Fence Fittings	37

Pipe



Pipe

LINE PIPE

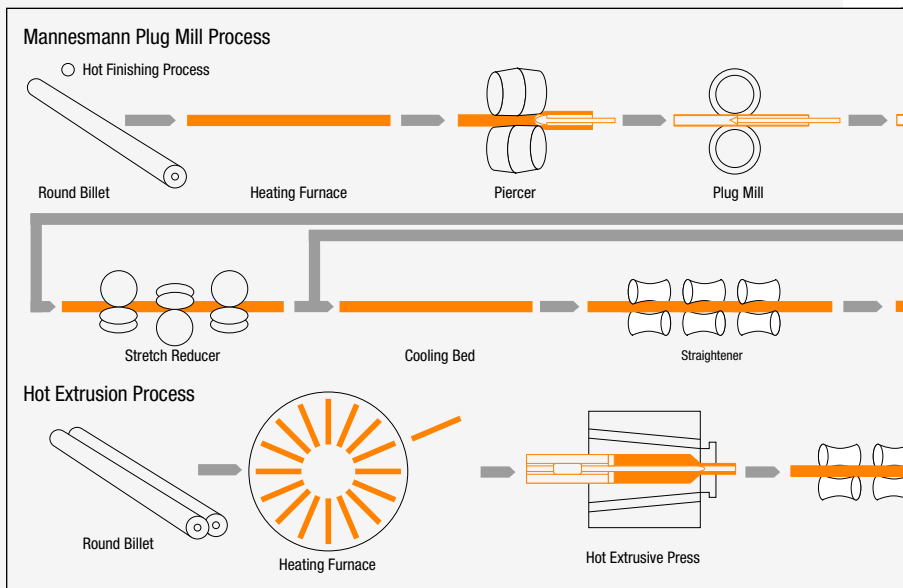
Manufacturing Process

Seamless Line Pipe is produced by either the Mannesmann plug mill method or the hot extrusion method. Round solid billets are used. In the Mannesmann method, billets are heated and pierced. The hollow blanks are then rolled on a plug mill. From the plug mill they are sent to a sizing or reducing mill where they are finished to the required dimensions.

In the hot extrusion process, heated billets are put into "containers" – steel cylinders resistant to high pressure – and then extruded from the containers using a ram directly connected to the press. Dies and mandrel work together to extrude seamless line pipe of the required outside diameter and wall thickness.

Main Uses

Pipelines for transmission and distribution of crude oil, natural gas, petroleum products, slurries, and water.



LINE PIPE

Specifications

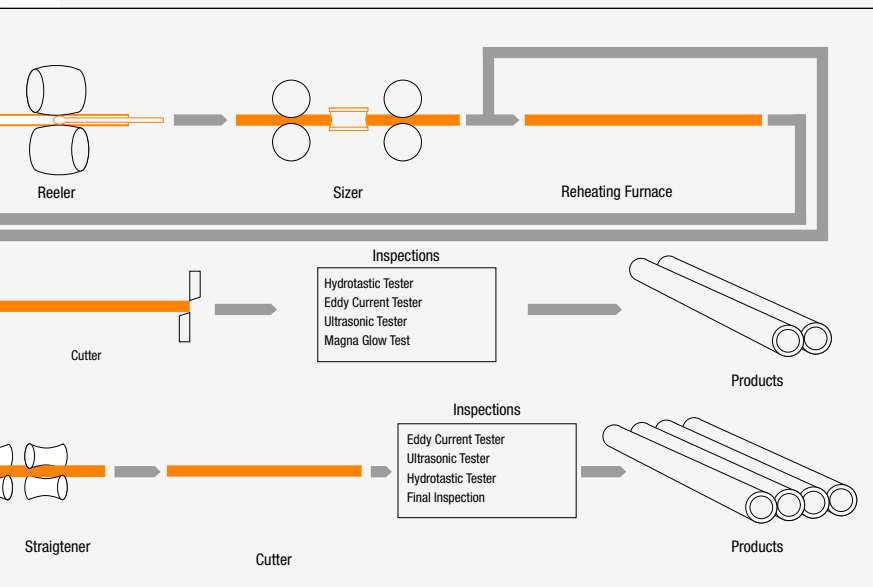
Chemical Requirements (%)

Standard	Grade	C (max)	Mn	P	S	Si
API 5L	A25 class 1	0.21	0.30 - 0.60	0.045 max	0.06 max	-
	A25 class 2	0.21	0.30 - 0.60	0.045 - 0.080	0.06 max	-
	A	0.22	0.90 max	0.04 max	0.05 max	-
	B	0.27	1.15 max	0.04 max	0.05 max	-
API 5LX	Non-expanded X42	0.29	1.25 max	0.04 max	0.05 max	-
	Non-expanded X46 and X52	0.31	1.35 max	0.04 max	0.05 max	-
	Cold-expanded* X42, X46 and X52	0.31	1.25 max	0.04 max	0.05 max	-
		0.29				
ASTM A106**	Grade A	0.25	0.27 - 0.93	0.048 max	0.058 min	0.10
	Grade B	0.30	0.29 - 1.06	0.048 max	0.058 min	0.10
	Grade C	0.35	0.29 - 1.06	0.048 max	0.058 min	0.10

* Either columbium, vanadium, or a combination thereof, shall be used at the discretion of the manufacturer.

** Fletcher Easysteel normally stock A106 Grade B. Others are available on request.

Note: For grade X60 pipe, the maximum manganese may be in the range of 1.36 to 1.40% provided the maximum carbon content does not exceed 0.25%.



Pipe

SEAMLESS LINE PIPE

Product Shortname: API

Tensile Requirements:



Standard	Grade	Yield Strength		Tensile Strength	
		psi (min.)	kg/cm ² (min.)	psi (min.)	kg/cm ² (min.)
API 5L	A25	25,000	1,760	45,000	3,160
	A	30,000	2,110	48,000	3,370
	B	35,000	2,460	60,000	4,220
API 5LX	X42	42,000	2,950	60,000	4,220
	X46	46,000	3,230	63,000	4,430
	X52	52,000	3,660	66,000	4,640
ASTM 106	A	30,000	2,110	48,000	3,370
	B	35,000	2,460	60,000	4,220
	C	40,000	2,810	70,000	4,920

Surface Finish: To prevent deterioration of surface quality between manufacturer and installation, each length of API is coated with a rust preventative lacquer.

Internal Pressure Data: (Line Pipes Schedule 40 and Schedule 80)

Nominal Pipe Size		Outside Diameter		Schedule 40 Pipes						Schedule 80 Pipes					
				Mill Test Pressure		Internal Pressure at 85% Min. Yield		Internal Pressure at Min. Yield based on Nominal Wall		Mill Test Pressure		Internal Pressure at 85% Min. Yield		Internal Pressure at Min. Yield based on Nominal Wall	
in.	mm	in.	mm	psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²	psi	kg/cm ²
3/8	10	0.6750	17.10	700	49	8020	564	9440	664	850	60	11110	781	13070	919
1/2	15	0.8400	21.30	700	49	7720	543	9080	638	850	60	10410	732	12250	861
3/4	20	1.0500	26.70	700	49	6400	450	7530	529	850	60	8730	614	10270	722
1	25	1.3150	33.40	700	49	6020	423	7080	498	850	60	8100	569	9530	670
1.25	32	1.6600	42.20	1300	91	5020	353	5900	415	1900	134	6850	482	8050	566
1.5	40	1.9000	48.30	1300	91	4540	319	5340	375	1900	134	6260	440	7370	518
2	50	2.3750	60.30	2500	175	3860	371	4540	319	2500	176	5460	384	6430	452
2.5	65	2.8750	73.00	2500	176	4200	295	4940	347	2500	176	5710	401	6720	472
3	75	3.5000	88.90	2500	176	3670	258	4320	304	2500	176	5100	359	6000	422
3.5	90	4.0000	101.60	2370	167	3360	236	3960	278						
4	100	4.5000	114.30	2210	155	3130	220	3690	259	2800	197	4460	314	5240	368
5	125	5.5625	141.30	1950	137	2760	194	3250	228	2800	197	4010	282	4720	332
6	150	6.6250	168.30	1780	125	2510	176	2960	208	2740	193	3880	273	4560	321
8	200	8.6250	219.10	1570	110	2220	156	2610	183	2430	171	3450	243	4060	285
10	250	10.7500	273.05	1430	101	2020	142	2380	167						
12	300	12.7500	323.45	1240	87	1750	123	2060	145						
14	350	14.0000	355.60	1120	79	1590	112	1880	132						
16	400	16.0000	406.40	980	69	1390	98	1640	115						

SEAMLESS LINE PIPE

Product Shortname: API

Specifications:

Standard	Grade	C (max)	Mn	P	S	Si
API 5L	A25 class 1	0.21	0.30 - 0.60	0.045 max	0.06 max	-
	A25 class 2	0.21	0.30 - 0.60	0.045 - 0.080	0.06 max	-
	A	0.22	0.90 max	0.04 max	0.05 max	-
	B	0.27	1.15 max	0.04 max	0.05 max	-
API 5LX	Non-expanded X42	0.29	1.25 max	0.04 max	0.05 max	-
	Non-expanded X46 and X52	0.31	1.35 max	0.04 max	0.05 max	-
	Cold-expanded*	0.31	1.25 max	0.04 max	0.05 max	-
	X42, X46 and X52	0.29				
ASTM A106**	Grade A	0.25	0.27 - 0.93	0.048 max	0.058 min	0.10
	Grade B	0.30	0.29 - 1.06	0.048 max	0.058 min	0.10
	Grade C	0.35	0.29 - 1.06	0.048 max	0.058 min	0.10

*Either columbium, vanadium, or a combination thereof, shall be used at the discretion of the manufacturer.

**Fletcher Easysteel normally stock A106, Grade B. Others are available on request.

(Fletcher Easysteel stock a max. carbon content of 0.23%.)

Note: For grade X60 pipe, the maximum manganese may be in the range of 1.36 to 1.40% provided the maximum carbon content does not exceed 0.25%.

Surface Finish: To prevent deterioration of surface quality between manufacturer and installation, each length of API is coated with a rust preventative lacquer.

Seamless Line Pipe Stock Range			
Size nominal x WT x Sch x Length (m)	Kg/mtr	Size nominal x WT x Sch x Length (m)	Kg/mtr
API 3/8 x .091 x S40 x 6	0.85	API 2 x .218 x S80 x 6	7.48
API .5 x .109 x S40 x 6	1.27	API 2.5 x .203 x S40 x 6	8.62
API .5 x .147 x S80 x 6	1.62	API 2.5 x .276 x S80 x 6	11.39
API .5 x .188 x S160 x 6	1.95	API 3 x .216 x S40 x 6	11.31
API .75 x .113 x S40 x 6	1.68	API 3 x .300 x S80 x 6	15.27
API .75 x .154 x S80 x 6	2.19	API 3.5 x .226 x S40 x 6	13.48
API .75 x .219 x S160 x 6	2.90	API 4 x .237 x S40 x 6	16.07
API 1 x .133 x S40 x 6	2.52	API 4 x .337 x S80 x 6	22.42
API 1 x .179 x S80 x 6	3.23	API 5 x .258 x S40 x 6	21.76
API 1.25 x .14x S40 x 6	3.43	API 5 x .375 x S80 x 6	30.97
API 1.25 x .19 x S80 x 6	4.47	API 6 x .280 x S40 x 6	28.26
API 1.5 x .145 x S40 x 6	4.07	API 6 x .432 x S80 x 6	42.56
API 1.5 x .200 x S80 x 6	5.41	API 8 x .322 x S40 x 6	42.53
API 2 x .154 x S40 x 6	5.42	API 8 x .500 x S80 x 6	64.63

Pipe

LINE PIPE

Product Shortname: API/ERW Sizes and Weights – Imperial Sizes listed in this table are available either ex-stock or on an indent basis.

Nom. Pipe Size in.	OD in.	5S	10S	10	20	30	STD	40S	40	60	XS	80S	80	100	120	140	160	XXS	
1/8	0.405		0.0490				0.0680	0.0680	0.0680		0.0950	0.0950	0.0950						
			0.19				0.24	0.24	0.24		0.31	0.32	0.31						
1/4	0.540		0.0650				0.0880	0.0880	0.0880		0.119	0.119	0.119						
			0.34				0.42	0.43	0.42		0.54	0.55	0.54						
3/8	0.675		0.0650				0.0910	0.0910	0.0910		0.126	0.126	0.126						
			0.43				0.57	0.58	0.57		0.74	0.75	0.74						
1/2	0.840	0.0650	0.0830				0.109	0.109	0.109		0.147	0.147	0.147				0.188	0.294	
		0.55	0.68				0.85	0.87	0.85		1.09	1.11	1.09				1.31	1.71	
3/4	1.050	0.0650	0.830				0.113	0.113	0.113		0.154	0.154	0.154				0.219	0.308	
		0.70	0.88				1.13	1.15	1.13		1.47	1.50	1.47				1.94	2.44	
1	1.315	0.0650	0.109				0.133	0.133	0.133		0.179	0.179	0.179				0.250	0.358	
		0.89	1.43				1.68	1.71	1.68		2.17	2.21	2.17				2.84	3.66	
1 1/4	1.660	0.0650	0.109				0.140	0.140	0.140		0.191	0.191	0.191				0.250	0.382	
		1.13	1.85				2.27	2.32	2.27		3.00	3.06	3.00				3.76	5.21	
1 1/2	1.900	0.0650	0.109				0.145	0.145	0.145		0.200	0.200	0.200				0.281	0.400	
		1.31	2.13				2.72	2.77	2.72		3.63	3.70	3.63				4.86	6.41	
2	2.375	0.0650	0.109				0.154	0.154	0.154		0.218	0.218	0.218				0.344	0.436	
		1.64	2.69				3.65	3.72	3.65		5.02	5.12	5.02				7.46	9.03	
2 1/2	2.875	0.0830	0.120				0.203	0.203	0.203		0.276	0.276	0.276				0.375	0.552	
		2.53	3.60				5.79	5.91	5.79		7.66	7.81	7.66				10.01	13.69	
3	3.500	0.0830	0.120				0.216	0.216	0.216		0.300	0.300	0.300				0.438	0.600	
		3.09	4.42				7.58	7.73	7.58		10.25	10.46	10.25				14.32	18.58	
3 1/2	4.000	0.0830	0.120				0.226	0.226	0.226		0.318	0.318	0.318						
		3.55	5.07				9.11	9.29	9.11		12.50	12.76	12.50						
4	4.500	0.0830	0.120				0.237	0.237	0.237		0.337	0.337	0.337				0.531	0.674	
		4.00	5.72				10.79	11.01	10.79		14.98	15.28	14.98		0.438		22.51	27.54	
5	5.563	0.109	0.134				0.258	0.258	0.258		0.375	0.375	0.375		0.500		0.625	0.750	
		6.49	7.93				14.62	14.91	14.62		20.78	21.20	20.78		27.04		32.96	38.55	
6	6.625	0.109	0.134				0.280	0.278	0.280		0.432	0.432	0.432		0.562		0.719	0.864	
		7.75	9.48				18.97	19.35	18.97		28.57	29.14	28.57		36.39		45.35	53.16	
8	8.625	0.109	0.148		0.250	0.277	0.322	0.322	0.322	0.406	0.500	0.500	0.500	0.534	0.719	0.812	0.906	0.875	
		10.13	13.67		22.36	24.70	28.55	29.12	28.55	35.64	43.39	44.26	43.39	50.95	60.71	67.76	74.69	72.42	
10	10.750	0.134	0.165		0.250	0.307	0.365	0.365	0.365	0.500	0.500	0.500	0.594	0.719	0.844	1.000	1.125	1.000	
		15.49	19.02		28.04	34.24	40.48	41.29	40.48	54.74	54.74	55.83	64.43	77.03	89.29	104.13	115.64	104.13	
12	12.750	0.156	0.180		0.250	0.330	0.375	0.375	0.406	0.562	0.500	0.500	0.688	0.844	1.000	1.125	1.312	1.000	
		21.40	24.65		33.38	43.77	49.56	50.55	53.52	73.15	65.42	66.73	88.63	107.32	125.49	139.67	160.27	125.49	
14	14.000	0.156	0.188	0.250	0.312	0.375	0.375		0.438	0.594	0.500	0.500	0.750	0.938	1.094	1.250	1.406		
		23.53	28.28	36.71	45.61	54.57	54.57		63.44	85.05	72.09		106.13	130.85	150.79	170.21	189.11		
16	16.000	0.165	0.188	0.250	0.312	0.375	0.375		0.500	0.656	0.500		0.844	1.031	1.219	1.438	1.594		
		28.46	32.39	42.05	52.27	62.58	62.58		82.77	107.50	82.77		136.61	164.82	192.43	223.64	245.25		
18	18.000	0.165	0.188	0.250	0.312	0.438	0.375		0.562	0.750	0.500		0.938	1.156	1.375	1.562	1.781		
		32.06	36.48	47.39	58.94	82.15	70.59		104.67	138.17	93.45		170.92	207.96	244.14	274.22	308.50		
20	20.000	0.188	0.218	0.250	0.375	0.500	0.375		0.594	0.812	0.500		1.031	1.281	1.500	1.750	1.969		
		40.58	46.98	52.73	78.60	104.13	78.60		123.11	166.40	104.13		208.87	256.10	296.37	341.09	379.17		
22	22.000	0.188	0.218	0.250	0.375	0.500	0.375		0.875	0.500			1.125	1.375	1.625	1.875	2.125		
		44.68	51.72	58.07	86.61	114.81	86.61		197.41	114.81			250.81	302.88	353.61	403.00	451.06		
24	24.000	0.218	0.250	0.250	0.375	0.562	0.375		0.688	0.969	0.500		1.219	1.531	1.812	2.062	2.344		
		56.48	64.68	63.41	94.62	140.68	94.62		171.29	238.35	125.49		296.58	367.39	429.39	483.12	542.13		
26	26.000			0.312	0.500		0.375				0.500								
				85.60	136.17		102.63				136.17								
28	28.000			0.312	0.500	0.625	0.375				0.500								
				92.26	146.85	182.73	110.64				146.85								
30	30.000	0.250	0.312	0.312	0.500	0.625	0.375				0.500								
		81.02	100.91	98.93	157.53	196.08	118.65				157.53								
32	32.000		0.312	0.500	0.625	0.375		0.688		0.500									
					105.59	168.21	209.43	126.66		230.08			168.21						
34	34.000			0.312	0.500	0.625	0.375		0.688		0.500								
				112.25	178.89	222.78	134.67		244.77		178.89								
36	36.000			0.312	0.500	0.625	0.375		0.750		0.500								
				118.92	189.57	236.13	142.68		282.35		189.57								
38	38.000						0.375				0.500								
							0.375				0.500								
40	40.000						0.375				0.500								
							0.375				0.500								
42	42.000						0.375				0.500								
							0.375				0.500								
44	44.000						0.375				0.500								
							0.375				0.500								
46	46.000						0.375				0.500								
							0.375				0.500								
48	48.000						0.375				0.500								
							0.375				0.500								
							190.74				253.65								

Wall Thickness = inches
Weight = lb/ft (plain end mass)
5S, 10S, 40S, 60S = ANSI B36.19

Wall Thickness = inches
Weight = lb/ft (plain end mass)
5S, 10S, 40S, 80S – ANSI B36.19

LINE PIPE

Product Shortname: API/ERW **Sizes and Weights – Metric** Sizes listed in this table are available either ex-stock or on an indent basis.

Nom. Pipe Size mm	OD mm	5S	10S	10	20	30	STD	40S	40	60	XS	80S	80	100	120	140	160	XXS
6	10.3		1.24 0.28				1.73 0.37	1.73 0.36	1.73 0.37		2.41 0.47	2.41 0.48	2.41 0.47					
8	13.7		1.65 0.51				2.24 0.63	2.24 0.64	2.24 0.63		3.02 0.80	3.02 0.82	3.02 0.80					
10	17.1		1.65 0.64				2.31 0.84	2.31 0.86	2.31 0.84		3.20 1.10	3.20 1.12	3.20 1.10					
15	21.3	1.65	2.77				2.77 1.27	2.77 1.30	2.77 1.27		3.73 4.62	3.73 4.65	3.73 4.62				4.78	7.47
20	26.7	1.65	2.11				2.87 1.69	2.87 1.71	2.87 1.69		3.91 2.20	3.91 2.24	3.91 2.20				1.95	2.55
25	33.4	1.65	2.77				3.38 1.69	3.38 1.71	3.38 1.69		4.55 2.20	4.55 2.24	4.55 2.20				5.56	7.82
32	42.2	1.33	2.13				2.50 3.56	2.55 3.56	2.50 3.56		3.24 4.85	3.29 4.85	3.24 4.85				2.90	3.64
40	48.3	1.68	2.76				3.39 3.68	3.46 3.68	3.39 3.68		4.47 5.08	4.56 5.08	4.47 5.08				6.35	9.09
40	48.3	1.65	2.77				3.68 4.05	3.68 4.13	3.68 4.05		5.08 5.41	5.08 5.51	5.08 5.41				4.24	5.45
50	60.3	1.95	3.17				4.05 3.91	4.13 3.91	4.05 3.91		5.41 5.54	5.51 5.54	5.41 5.54				5.35	9.7
50	60.3	1.65	2.77				3.91 5.44	3.91 5.54	3.91 5.44		5.54 7.48	5.54 7.63	5.54 7.48				7.25	9.56
65	73.1	2.44	4.01				5.44 5.16	5.54 5.16	5.44 5.16		7.48 7.01	7.63 7.01	7.48 7.01				8.74	11.07
65	73.1	2.11	3.05				5.16 8.63	5.16 8.81	5.16 8.63		7.01 11.41	7.01 11.64	7.01 11.41				11.11	13.44
80	88.9	2.11	3.05				5.49 11.29	5.49 11.52	5.49 11.29		7.62 15.27	7.62 15.59	7.62 15.27				14.92	20.39
90	101.6	2.11	3.05				5.74 13.57	5.74 13.84	5.74 13.57		8.08 18.63	8.08 19.01	8.08 18.63				11.13	15.24
100	114.3	2.11	3.05				6.02 12.07	6.02 12.07	6.02 12.07		8.56 22.77	8.56 22.77	8.56 22.32				21.35	27.68
125	141.3	2.77	3.40				6.55 21.77	6.55 22.22	6.55 21.77		9.53 30.97	9.53 31.59	9.53 30.97					
150	168.3	2.77	3.40				7.11 28.26	7.11 28.83	7.11 28.26		10.97 42.56	10.97 43.42	10.97 42.56					
200	219.1	2.77	3.76		6.35	7.04	8.18 42.55	8.18 43.39	8.18 42.55	10.31 53.08	12.70 64.64	12.70 65.95	12.70 64.64	15.09 75.92	15.09 90.44	20.62 100.92	23.01 111.27	29.22 107.92
250	273.1	3.40	4.19		6.35	7.80	9.27 61.52	9.27 63.91	9.27 60.31	12.70 81.55	12.70 83.19	12.70 96.01	12.70 96.01	15.09 114.75	15.09 133.06	25.40 155.15	28.58 172.33	35.40 255.15
300	323.9	3.96	4.57		6.35	8.38	9.53 75.32	9.53 79.73	9.53 75.32	10.31 108.96	12.70 97.46	12.70 97.46	12.70 97.46	17.48 132.08	17.48 159.91	25.4 186.97	28.58 208.14	35.40 238.76
350	355.6	3.96	4.78	6.35	7.92	9.53	9.53 11.13	9.53 15.09	9.53 12.70	10.31 15.09	12.70 12.70	12.70 12.70	12.70 12.70	19.05 19.05	23.83 23.83	27.79 27.79	31.75 31.75	35.71 35.71
400	406.4	35.06	42.14	54.69	67.90	81.33	81.33 94.55	81.33 126.71	81.33 107.39	94.55 126.71	107.39 139.15	107.39 154.96	107.39 154.96	139.15 194.96	139.15 224.65	154.96 253.56	181.70 281.70	207.25 317.25
450	457.2	4.19	4.78	6.35	7.92	9.53	9.53 12.70	9.53 16.66	9.53 12.70	10.31 12.70	12.70 12.70	12.70 12.70	12.70 12.70	21.44 203.53	21.44 245.56	30.96 286.64	36.53 333.19	40.49 365.35
500	508.0	4.21	4.78	6.35	7.92	11.13	9.53 105.16	9.53 158.8	9.53 12.70	10.31 158.8	12.70 205.72	12.70 139.15	12.70 139.15	23.83 254.55	23.83 309.62	34.93 363.56	39.67 408.26	45.24 459.37
500	508.0	4.78	5.54	6.35	9.53	12.70	9.53 117.15	9.53 171.55	9.53 117.15	10.31 183.42	12.70 247.83	12.70 155.12	12.70 155.12	26.19 311.17	26.19 381.53	36.53 441.49	40.49 508.11	45.24 564.81
550	558.8	4.78	5.54	6.35	9.53	12.70	9.53 129.13	9.53 171.09	9.53 129.13	10.31 294.25	12.70 171.09	12.70 373.83	12.70 373.83	28.58 451.42	28.58 527.02	36.53 603.63	40.49 672.26	45.24 762.26
600	609.6	5.54	6.35	6.35	9.53	14.27	9.53 141.12	9.53 255.41	9.53 174.48	10.31 246.1	12.70 12.70	12.70 187.06	12.70 187.06	30.96 442.08	30.96 547.71	38.89 720.15	46.02 808.22	52.37 959.54
650	660.4	84.16	96.37	94.53	141.12	209.64	141.12 9.53	141.12 152.87	141.12 152.87	152.87 202.72	174.48 202.72	187.06 202.72	187.06 202.72					
700	711.2				7.92	12.70	15.88 15.88	15.88 15.88	15.88 15.88	17.48 17.48	20.31 20.31	22.32 22.32	22.32 22.32					
750	762.0	6.35	7.92	12.70	15.88	9.53	9.53 164.85	9.53 271.21	9.53 164.85	10.31 218.69	12.70 12.70	12.70 12.70	12.70 12.70					
800	812.8	120.72	150.36	147.28	234.67	292.18	176.84 9.53	176.84 15.88	176.84 15.88	176.84 17.48	234.67 234.67	234.67 234.67	234.67 234.67					
850	863.6			157.24	250.64	312.15	188.82 9.53	188.82 15.88	188.82 15.88	188.82 17.48	250.64 250.64	250.64 250.64	250.64 250.64					
900	914.4			7.92	12.70	15.88	9.53 200.31	9.53 332.12	9.53 200.31	10.31 364.90	12.70 12.70	12.70 12.70	12.70 12.70					
950	965.2			176.96	282.27	351.70	212.56 9.53	212.56 9.53	212.56 9.53	212.56 17.48	282.27 282.27	282.27 282.27	282.27 282.27					
1000	1016.0						9.53 234.52	9.53 234.52	9.53 234.52	10.31 234.52	12.70 12.70	12.70 12.70	12.70 12.70					
1050	1068.8						9.53 248.52	9.53 248.52	9.53 248.52	10.31 248.52	12.70 12.70	12.70 12.70	12.70 12.70					
1100	1117.6						9.53 260.50	9.53 260.50	9.53 260.50	10.31 260.50	12.70 12.70	12.70 12.70	12.70 12.70					
1150	1168.4						9.53 272.25	9.53 272.25	9.53 272.25	10.31 272.25	12.70 12.70	12.70 12.70	12.70 12.70					
1200	1219.2						9.53 284.24	9.53 284.24	9.53 284.24	10.31 284.24	12.70 12.70	12.70 12.70	12.70 12.70					

Wall Thickness = mm
Weight = kg/m (plain end mass)
5S, 10S, 40S, 80S – ANSI B36.19

Common Pipe Sizes

NB		OD (mm)	Sched	Wall (mm)	Weight (Kg/ mtr)
(inch)	(mm)				
1/8	6	10.3	STD/40	1.7	0.37
1/8	6	10.3	XS/80	2.4	0.47
1/4	8	13.7	STD/40	2.2	0.63
1/4	8	13.7	XS/80	3.0	0.8
3/8	10	17.1	STD/40	2.3	0.84
3/8	10	17.1	XS/80	3.2	1.1
1/2	15	21.3	STD/40	2.8	1.3
1/2	15	21.3	XS/80	3.7	1.6
1/2	15	21.3	160	4.8	1.9
1/2	15	21.3	XXS	7.5	2.5
3/4	20	26.7	STD/40	2.9	1.7
3/4	20	26.7	XS/80	3.9	2.2
3/4	20	26.7	160	5.6	2.9
3/4	20	26.7	XXS	7.8	3.6
1	25	33.4	STD/40	3.4	2.5
1	25	33.4	XS/80	4.5	3.2
1	25	33.4	160	6.4	4.2
1	25	33.4	XXS	9.1	5.4
1 1/4	32	42.2	STD/40	3.6	3.4
1 1/4	32	42.2	XS/80	4.9	4.5
1 1/4	32	42.2	160	6.4	5.6
1 1/4	32	42.2	XXS	9.7	7.8
1 1/2	40	48.3	STD/40	3.7	4.0
1 1/2	40	48.3	XS/80	5.1	5.4
1 1/2	40	48.3	160	7.1	7.2
1 1/2	40	48.3	XXS	10.2	9.5
2	50	60.3	STD/40	3.9	5.4
2	50	60.3	XS/80	5.5	7.5
2	50	60.3	160	8.7	11.1
2	50	60.3	XXS	11.1	13.4
2 1/2	65	73.0	STD/40	5.2	8.6
2 1/2	65	73.0	XS/80	7.0	11.4
2 1/2	65	73.0	160	9.5	14.9
2 1/2	65	73.0	XXS	14.0	20.4
3	80	88.9	STD/40	5.5	11.3
3	80	88.9	XS/80	7.6	15.3
3	80	88.9	160	11.1	21.3
3	80	88.9	XXS	15.2	27.7

NB		OD (mm)	Sched	Wall (mm)	Weight (Kg/ mtr)
(inch)	(mm)				
3 1/2	90	101.6	STD/40	5.7	13.6
3 1/2	90	101.6	XS/80	8.1	18.6
3 1/2	90	101.6		13.0	22.0
4	100	114.3		4.8	12.0
4	100	114.3	STD/40	6.0	16.1
4	100	114.3	XS/80	8.6	22.3
4	100	114.3	120	11.1	28.3
4	100	114.3	160	13.5	33.5
4	100	114.3	XXS	17.1	41.0
5	125	141.3		4.8	16.0
5	125	141.3	STD/40	6.6	21.8
5	125	141.3	XS/80	9.5	31.0
5	125	141.3	120	12.7	40.3
5	125	141.3	160	15.9	49.1
5	125	141.3	XXS	19.0	57.4
6	150	168.3		4.8	19.0
6	150	168.3		6.4	22.0
6	150	168.3	STD/40	7.1	28.3
6	150	168.3	XS/80	11.0	42.5
6	150	168.3	120	14.3	54.2
6	150	168.3	120	18.3	67.5
6	150	168.3	XXS	21.9	79.2
8	200	219.1		4.8	25.0
8	200	219.1	20	6.4	33.3
8	200	219.1	30	7.0	36.6
8	200	219.1	STD/40	8.2	42.5
8	200	219.1	60	10.3	53.1
8	200	219.1	XS/80	12.7	64.6
8	200	219.1	100	15.1	75.9
8	200	219.1	120	18.3	90.4
8	200	219.1	140	20.6	100.9
8	200	219.1	XXS	22.2	108.0
8	200	219.1	160	23.0	111.3
10	250	273.0		4.8	31.0
10	250	273.0	20	6.4	41.7
10	250	273.0	30	7.8	51.0
10	250	273.0	STD/40	9.3	60.2
10	250	273.0	XS/60	12.7	81.5

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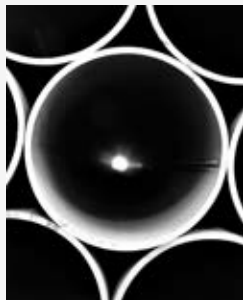
Common Pipe Sizes

Sched	Wall (mm)	Weight (Kg/ mtr)
80	15.1	95.8
100	18.3	115.0
120	21.4	133.0
XXS/140	25.5	155.0
160	28.6	172.0
	4.8	40.0
20	6.4	49.7
30	8.4	64.1
STD	9.5	73.8
40	10.3	79.7
XS	12.7	97.4
60	14.3	109.0
80	17.5	132.0
100	21.4	160.0
XXS/120	25.4	187.0
140	28.6	208.9
160	33.3	239.0
10	6.4	54.6
20	7.9	68.0
STD/30	9.5	81.2
40	11.1	94.3
XS/40	12.7	107.0
60	15.1	127.0
80	19.0	158.0
100	23.8	195.0
120	27.8	224.0
140	31.8	253.0
160	35.7	281.0
10	6.4	62.6
20	7.9	77.9
STD/30	9.5	931.0
XS/40	12.7	123.0
60	16.7	160.0
80	21.4	203.0
100	26.2	245.0
120	31.0	286.0
140	36.5	333.0
160	40.5	365.0

NB		OD (mm)	Sched	Wall (mm)	Weight (Kg/ mtr)
(inch)	(mm)				
18	450	457.0	10	6.4	70.5
18	450	457.0	20	7.9	87.8
18	450	457.0	STD	9.5	105.2
18	450	457.0	30	11.1	122.4
18	450	457.0	XS	12.7	139.2
18	450	457.0	40	14.3	155.8
18	450	457.0	60	19.0	205.7
18	450	457.0	80	23.9	254.5
18	450	457.0	100	29.4	310.0
18	450	457.0	120	34.9	363.5
18	450	457.0	140	39.7	408.2
18	450	457.0	160	45.2	459.4
20	500	508.0	10	6.4	78.5
20	500	508.0	STD/20	9.5	117.1
20	500	508.0	XS/30	12.7	155.1
20	500	508.0	40	15.1	183.4
20	500	508.0	60	20.6	247.8
20	500	508.0	80	26.2	311.2
20	500	508.0	100	32.5	381.5
20	500	508.0	120	38.1	441.5
20	500	508.0	140	44.4	508.1
20	500	508.0	160	50.0	564.8
22	550	559.0	10	6.4	86.5
22	550	559.0	STD/20	9.5	129.1
22	550	559.0	XS/30	12.7	171.1
22	550	559.0	60	22.2	294.2
22	550	559.0	80	28.6	3738.0
22	550	559.0	100	34.9	451.4
22	550	559.0	120	41.3	527.0
22	550	559.0	140	47.6	600.6
22	550	559.0	160	54.0	672.2
24	600	610.0	10	6.4	94.5
24	600	610.0	STD/20	9.5	141.1
24	600	610.0	XS	12.7	187.1
24	600	610.0	30	14.3	209.6
24	600	610.0	40	17.5	255.4
24	600	610.0	60	24.6	355.2
24	600	610.0	80	31.0	442.0

NB		OD (mm)	Sched	Wall (mm)	Weight (Kg/ mtr)
(inch)	(mm)				
24	600	610.0	100	38.9	547.7
24	600	610.0	120	46.0	640.0
24	600	610.0	140	52.4	720.1
24	600	610.0	160	59.5	808.2
26	650	660.0	10	7.9	127.4
26	650	660.0	STD	9.5	152.9
26	650	660.0	XS/20	12.7	202.7
28	700	711.0	10	7.9	137.3
28	700	711.0	STD	9.5	164.9
28	700	711.0	XS/20	12.7	218.7
28	700	711.0	30	15.9	271.2
30	750	762.0	10	7.9	147.3
30	750	762.0	STD	9.5	176.8
30	750	762.0	XS/20	12.7	234.7
30	750	762.0	30	15.9	292.1
32	800	813.0	10	7.9	157.2
32	800	813.0	STD	9.5	188.8
32	800	813.0	XS/20	12.7	250.6
32	800	813.0	30	15.9	312.1
32	800	813.0	40	17.5	342.9
34	850	864.0	10	7.9	167.2
34	850	864.0	STD	9.5	200.3
34	850	864.0	XS/20	12.7	266.6
34	850	864.0	30	15.9	332.1
34	850	864.0	40	17.5	364.9
36	900	914.0	10	7.9	176.9
36	900	914.0	STD	9.5	212.5
36	900	914.0	XS/20	12.7	282.2
36	900	914.0	30	15.9	351.7
36	900	914.0	40	19.0	420.4
38	950	965.0	STD	9.5	224.5
38	950	965.0	XS	12.7	298.2
40	1000	1016.0	STD	9.5	236.5
40	1000	1016.0	XS	12.7	314.2
42	1050	1067.0	STD	9.5	248.5
42	1050	1067.0	XS	12.7	330.2
48	1200	1219.0	STD	9.5	284.2
48	1200	1219.0	XS	12.7	377.8

Pipe



ERW LINE PIPE

Product Shortname: ERW

Specifications:

- AS 1163 C350LO
- API 5LB PSL1

Applications: Pressure piping for flammable, toxic, high pressure or lethal fluids and gases. Pipelines for gas and liquid petroleum. Line pipes for structural applications.

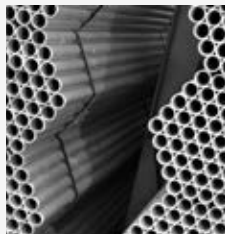
Surface Finish: To prevent deterioration of surface quality between manufacturer and installation, each length of ERW is coated with a rust preventative lacquer.

Commonly Stocked Size Range

Size Nominal x wt x Sch (m)	kg/m
ERW 4 x .237 x S40	16.07
ERW 5 x .258 x S40	21.77
ERW 5 x .375 x S80	30.97
ERW 6 x .250 x S20	25.60
ERW 6 x .280 x S40	28.26
ERW 6 x .432 x S80	42.56
ERW 8 x .250 x S20	33.31

Size Nominal x wt x Sch (m)	kg/m
ERW 8 x .322 x S40	42.55
ERW 10 x .250 x S20	41.77
ERW 10 x .365 x S40	60.31
ERW 12 x .250 x S20	49.73
ERW 12 x .375 x S40	73.88

Standard lengths available either 6m or 12m, please check with your nearest Easysteel Branch.
Other lengths available on indent.



GENERAL PURPOSE PIPE

Product Shortname: GPIP - Galvanised Pipe
BPIP - Primed Pipe/Black Pipe

Specifications: NZ AS 1074-1989
Australia AS 1074-1989
AS 1163-2009 Grade C250 (MD and HV w/t)
AS 1163-2009 Grade C350 (SL and LT w/t)

Size Designation:

Nominal Bore (mm) x Wall Thickness (mm) x End (PE or SS) x Length (m)

Supplied Condition:

SL super light MD medium PE plain end
LT light HV heavy SS screwed & socketed

SUPER LIGHT							LIGHT						
Nominal Bore (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)		Availability		Nominal Bore (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)		Availability	
			Black	Galv.	Black	Galv.				Black	Galv.	Black	Galv.
15	21.3	N/A					15	21.3	2.0	0.95	1.00		
20	26.9	2.0	1.22	1.28			20	26.9	2.3	1.39	1.44		✓
25	33.7	2.0	1.56	1.62	✓	✓	25	33.7	2.6	1.99	2.05	✓	✓
32	42.4	2.0	1.99	2.07			32	42.4	2.6	2.54	2.63	✓	✓
40	48.3	2.3	2.61	2.70			40	48.3	2.9	3.24	3.33		✓
50	60.3	2.3	3.29	3.40			50	60.3	2.9	4.09	4.21		✓
65	76.1	2.3	4.19	4.33			65	76.1	3.2	5.74	5.89		
80	88.9	2.6	5.53	5.70			80	88.9	3.2	6.75	6.92		
100	114.3	3.2	8.77	8.98			100	114.3	3.6	9.81	10.00		
125	139.7	3.0	10.10	11.80			125	139.7	3.5	11.80	12.00		
150	165.1	3.0	12.00	12.30	✓		150	165.1	3.5	13.90	14.30		

MEDIUM							HEAVY						
Nominal Bore (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)		Availability		Nominal Bore (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)		Availability	
			Black	Galv.	Black	Galv.				Black	Galv.	Black	Galv.
15	21.2	2.6	1.21	1.25	✓	✓	15	21.2	3.2	1.44	1.48		
20	26.9	2.6	1.55	1.60	✓	✓	20	26.9	3.2	1.86	1.92		
25	33.7	3.2	2.40	2.46	✓	✓	25	33.7	4.0	2.92	2.99	✓	
32	42.4	3.2	3.08	3.17	✓	✓	32	42.4	4.0	3.78	3.86	✓	
40	48.3	3.2	3.55	3.64	✓	✓	40	48.3	4.0	4.36	4.45	✓	
50	60.3	3.6	5.02	5.14	✓	✓	50	60.3	4.5	6.18	6.30	✓	✓
65	76.1	3.6	6.42	6.57	✓	✓	65	76.1	4.5	7.93	8.08	✓	
80	88.9	4.0	8.36	8.54	✓	✓	80	88.9	5.0	10.35	10.50	✓	
100	114.3	4.5	12.10	12.40	✓	✓	100	114.3	5.4	14.40	14.70	✓	
125	139.7	5.0	16.60	16.90	✓	✓	125	139.7	5.4	17.90	18.10	✓	
150	165.1	5.0	19.70	20.00	✓	✓	150	165.1	5.4	21.30	21.60	✓	

Standard stocked length is 6.5m. Other sizes and lengths are available on indent.

Standard stocked galvanised pipe is hot dip galvanised. In-line galvanised pipe available on indent.

✓ In stock all others available on indent

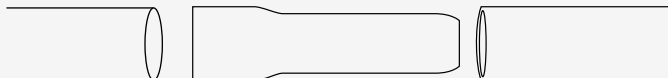
Pipe

HIGH STRENGTH/LIGHT WALL PIPE

Product Shortname: GPIIP

Plain End

Swaged One End



Specifications:

NZ/Australia AS1163-2009 - Grade C350

Size Designation:

Nominal Bore (mm) x Wall Thickness (mm) x End (PE or SWG) x Length (m)

Size Range Available:

Nominal Bore	Mass per Metre (kg/m)	Plain end	Swaged one end
20 x 2.3	1.44	✓	
25 x 2.0	1.64	✓	
25 x 2.6	2.05	✓	✓
32 x 2.6	2.63	✓	✓
40 x 2.9	3.33	✓	✓
50 x 2.9	4.21	✓	✓

Standard stocked length is 6.5m.

Other sizes of plain end and swaged both ends are available on indent.



BOILER TUBE CARBON STEEL

Product Shortname: BT

Specifications: acc. to DIN 17175 Grade I, St 35.8
acc. to BS 3059 Part 2 Steel 360

Size Range Available: All boiler tube is available on an indent only basis.

Outside Dia.	Wall Thickness	Kg/ metre
21.30	2.90	1.32
25.00	2.90	1.58
29.00	3.00	1.92
31.80	3.20	2.26
31.80	3.60	2.50
33.70	3.60	2.67
38.10	3.20	2.75
38.10	3.60	3.06
38.10	4.00	3.36
38.10	5.00	4.08
38.10	6.30	4.94
42.40	3.20	3.09
42.40	3.60	3.44
42.40	4.00	3.79
42.40	5.00	4.61
42.40	6.30	5.61
42.40	8.00	6.79
44.50	3.20	3.26
44.50	3.60	3.63
44.50	4.00	4.00
44.50	4.50	4.44
44.50	5.00	4.87
44.50	6.30	5.94
44.50	8.00	7.20
48.30	3.20	3.56
48.30	3.60	3.97
48.30	4.00	4.37
48.30	4.50	4.86

Outside Dia.	Wall Thickness	Kg/ metre
48.30	5.00	5.34
48.30	8.00	7.95
50.80	3.20	3.76
50.80	3.60	4.19
50.80	4.00	4.62
50.80	4.50	5.14
50.80	5.00	5.65
50.80	6.30	6.91
50.80	8.00	8.44
54.00	3.60	4.47
54.00	8.00	9.08
57.10	3.20	4.25
57.10	3.60	4.75
57.10	4.00	5.24
57.10	5.00	6.42
57.10	6.30	7.89
57.10	8.00	9.69
60.30	3.20	4.51
60.30	3.60	5.03
60.30	4.00	5.55
60.30	5.00	6.82
60.30	6.30	8.39
60.30	8.00	10.32
63.50	3.20	4.76
63.50	3.60	5.32
63.50	4.00	5.87
63.50	4.50	6.55
63.50	5.00	7.21

Outside Dia.	Wall Thickness	Kg/ metre
63.50	6.30	8.89
70.00	3.20	5.27
70.00	3.60	5.90
70.00	4.00	6.51
70.00	5.00	8.01
70.00	6.30	9.90
70.00	8.00	12.23
76.10	3.20	5.75
76.10	3.60	6.44
76.10	4.00	7.11
76.10	4.50	7.95
76.10	5.00	8.77
76.10	6.30	10.84
76.10	8.00	13.44
88.90	3.60	7.57
88.90	4.00	8.38
88.90	5.00	10.35
88.90	6.30	12.83
88.90	8.00	15.96
101.60	3.60	8.70
101.60	4.00	9.63
101.60	4.50	10.78
101.60	5.00	11.91
101.60	6.30	14.81
101.60	8.00	18.47
114.30	4.00	10.88
114.30	6.30	16.78

Pipe



HEAT EXCHANGER TUBES CARBON STEEL

Product Shortname: BT

Specifications:

Seamless cold-drawn steel heat-exchanger and
condenser
tubes.
acc. to ASTM A/ASME SA 179 A/SA 450,
acc. to STB 340
acc. to St. 35.8 Grade I
acc. to ASTM A 192

Size Range Available:

All heat exchanger tube is available on an indent only basis.

Dimension	Length
12.7 x 1.65 mm (1/2" x BWG 16) - 38.1 x 3.4 mm (1 1/2" x BWG 10)	Between 4,877 mm and 15,000 mm



SUPERHEATER TUBES

Product Shortname: BT

Specifications:

Seamless cold-drawn ferritic alloy steel superheater tubes.
acc. to ASTM A/ASME SA 213
A/SA 450, T5 and T11

Size Range Available:

All superheater tube is available on an indent only basis.

Dimension	Length
19.05 x 2.11 mm (3/4" x BWG 14) - 25.40 x 2.77 mm (1" x BWG 12)	Between 4,877 mm and 15,000 mm

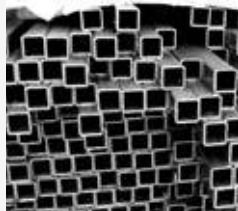
Carbon Steel Comparison Chart:

USA	UK	GERMANY	SWEDEN
ASTM A 53	BS3601	DIN 1629	
Grade A SMLS	HFS 22 & CDS 22	St 35	SIS 1233-05
GRADE B SMLS	HFS 27 & CDS 27	St 45	SIS 1434-05
ASTM A 53	BS3601	DIN 1626	
Grade A ERW	ERW 22	Blatt 3 St 34-2 ERW	
Grade B ERW	ERW 27	Blatt 3 St 37-2 ERW	
FBW	BW 22	Blatt 3 St 34-2 FBW	
ASTM A 106	BS3602	DIN 17175 ²⁾	
Grade A	HFS 23	St 35-8	SIS 1233-06
Grade B	HFS 27	St 45-8	SIS 1435-05
Grade C	HFS 35		
ASTM A 134	BS3601	DIN 1626	
	EFW	Blatt 2 EFW	
ASTM A 135	BS3601	DIN 1626	
Grade A	ERW 22	Blatt 3 St 34- ERW	SIS 1233-06
Grade B	ERW 27	Blatt 3 37-2 ERW	SIS 1434-06*
ASTM a 139	BS3601	DIN 1626	
Grade A	EFW 22	Blatt 2 St 37	
Grade B	EFW 27	Blatt 2 St 42	
ASTM A 155 Class 2	BS3602	DIN 1626, Blatt 3 with cert. C	
C45		St 34-2	
C50		St 37-2	
C55		St 42-2	
KC55	EFW 28	St 42-2 ²⁾	
KC60		St 42-2 ²⁾	
KC65	EFW 28S	St 52-2	
KC70		St 52-2	
API 5L	BS3601 Double welded	DIN 1629	
Grade A EFW	ERW 22	Blatt 3 St 34-2 FW	
Grade B EFE	ERW 27 ¹⁾	Blatt 4 St 37-2 FW	
API 5L	BS3601	DIN 1626	
FBW	BW 22	Blatt 3 St 34-2 FBW	

¹⁾ Specify API 5L Grade B testing procedure for these steels

²⁾ Specify SI-killed

Pipe



PRECISION TUBE

Product Shortname: EWSS

Specifications: AS1450:2007

Size Designation:

LED (mm) x SED (mm) x Wall Thickness (mm) x Length (m)

Size Range Available:

SQUARE					
Size (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)	Size (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)
9.5 x 9.5	1.2	0.341	25.4 x 25.4	1.4	1.050
9.5 x 9.5	1.6	0.438	25.4 x 25.4	1.6	1.192
12.7 x 12.7	1.2	0.449	25.4 x 25.4	2.0	1.894
16.0 x 16.0	1.2	0.553	25.4 x 25.4	2.6	1.873
16.0 x 16.0	1.6	0.720	31.8 x 31.8	1.6	1.531
19.0 x 19.0	1.2	0.677	31.8 x 31.8	2.0	1.520
19.0 x 19.0	1.4	0.784	35.0 x 35.0	1.6	1.636
19.0 x 19.0	1.6	0.889	38.0 x 38.0	1.2	1.373
22.2 x 22.2	1.2	0.811	38.0 x 38.0	1.6	1.815
22.2 x 22.2	1.6	1.065	38.0 x 38.0	2.0	2.249
25.4 x 25.4	1.2	0.906	51.0 x 51.0	1.6	2.443

RECTANGULAR					
Size (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)	Size (mm)	Wall Thickness (mm)	Mass per Metre (kg/m)
25.4 x 12.7	1.6	0.889	51.0 x 25.4	1.2	1.373
31.8 x 16.0	1.6	1.192	51.0 x 25.4	1.6	1.815
35.0 x 19.0	1.2	0.966	51.0 x 25.4	2.0	2.249
35.0 x 19.0	1.6	1.273	63.5 x 38.0	1.6	2.443
35.0 x 19.0	2.0	1.573	63.5 x 38.0	2.0	3.034

Standard stock length is 5.5 metre. Note: Other sizes may be available on request.



PRECISION TUBE

Product Shortname: EWR

Specifications: AS1450:2007

Size Range Available:

Outside Diameter (mm)	Wall Thickness (mm)	Weight Per Metre (kg/m)
9.5	1.2	0.246
9.5	1.6	0.312
12.7	1.2	0.341
12.7	1.4	0.390
12.7	1.6	0.438
16.0	1.2	0.438
16.0	1.4	0.504
16.0	1.6	0.568
16.0	2.0	0.691
19.0	1.2	0.527
19.0	1.4	0.608
19.0	1.6	0.687
19.0	2.0	0.839
22.2	1.2	0.622
22.2	1.4	0.718
22.2	1.6	0.813
22.2	2.0	0.997
25.4	1.2	0.716
25.4	1.4	0.829
25.4	1.6	0.939
25.4	2.0	1.154
28.6	1.2	1.066
28.6	1.6	1.065
28.6	2.0	1.312

Outside Diameter (mm)	Wall Thickness (mm)	Weight Per Metre (kg/m)
31.8	1.2	0.906
31.8	1.4	1.050
31.8	1.6	1.192
31.8	2.0	1.470
35.0	1.2	1.000
35.0	1.6	1.318
35.0	2.6	2.018
38.0	1.2	1.089
38.0	1.4	1.264
38.0	1.6	1.436
38.0	2.0	1.776
38.0	2.6	2.270
41.3	1.6	1.567
44.5	1.2	1.282
44.5	1.6	1.693
44.5	2.6	2.687
47.6	1.6	1.815
51.0	1.6	1.949
51.0	2.0	2.417
54.0	1.6	2.068
57.0	1.6	2.186
57.0	2.0	2.713
57.0	2.6	3.488
63.5	1.6	2.443

Outside Diameter (mm)	Wall Thickness (mm)	Weight Per Metre (kg/m)
63.5	2.0	3.034
76.2	1.6	2.940
76.2	2.0	3.655
76.2	2.6	4.713
88.9	1.6	3.445
101.6	1.6	3.946
101.6	2.0	4.913

Standard stock length is 5.5 metre. Note: Other sizes may be available on request.



Pipe Fittings



Pipe Fittings

STEEL FITTINGS

Specifications:

EN10241

Available in black and galvanised

Selection of sizes available in each finish

Female Elbow
WELB



Long Bend
WBEN



Barrel Piece
WNIP



Tee
WTEE



Plug
WPLU



Reducing Bush
WBUS



Hex Nipple
WNIP



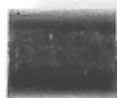
Reducing Socket
WSOC



M & F Elbow
WELB



Socket
WSOC



Profile Socket
WSOC



Barrel Nipple
WNIP



Pipe Fittings

WROUGHT STEEL FITTINGS

Working Pressures:

Table 1*: Taper/Parallel Thread Non-Gas Applications

*Table 1 – maximum working pressures given, apply to medium and heavy thickness pipe, screwed taper sockets and fittings tapped parallel thread.

Nominal Bore of Pipe mm	Water and Inert Oil		LPG med & hvy kPa	Fuel Oil				Other Applications**			
				Medium		Heavy		Medium		Heavy	
	medium kPa	heavy kPa		Pressure kPa	Temp °C	Pressure kPa	Temp °C	Pressure kPa	Temp °C	Pressure kPa	Temp °C
UTI 25***	2070	2410	140	1030	100	1210	192	1210	100	1210	192
32	1720	2070	140	1030	100	1030	192	1030	100	1030	192
40	1720	2070	140	1030	100	1030	192	1030	100	1030	192
50	1380	1720	140	860	100	860	192	860	100	860	192
65	1380	1720		860	100	860	192	860	100	860	192
80	1380	1720		860	100	860	192	860	100	860	192
100	1030	1380		690	100	860	192	690	100	690	192
125	1030	1380									
150	860	1030									

Table 2*: Taper/Taper Thread – Gas Applications

Nominal Bore of Pipe mm	Medium and Heavy kPa	Nominal Bore of Pipe mm	Medium and Heavy kPa
UT1 25***	1030	50	1030
32	1030	65	1030
40	1030	80	1030
		100	1030

**Included steam and compressed air

***Up to and including

Pipe Fittings

MALLEABLE IRON PIPE FITTINGS

Specifications:

Material ASTM A197

<i>Female/Female Elbow MELB</i>	<i>Reducing Tee MTEE</i>	<i>45° Female/Female Elbow MELB</i>	<i>Socket MSOC</i>	<i>Hex Nipple MNIP</i>
				
<i>Reducing Hex Nipple MNIP</i>	<i>Reducing Socket MSOC</i>	<i>Tee MTEE</i>	<i>M&F Bend MBEN</i>	<i>45° M&F Elbow MELB</i>
				
<i>90° M&F Elbow MELB</i>	<i>Mac Union MUNI</i>	<i>Reducing Bush MBUS</i>	<i>Cap MCAP</i>	<i>Plug MPLU</i>
				
<i>Compression Coupling with Grip Lock - MCOM</i>	<i>Compression Coupling Adaptor - MCOM</i>	<i>Compression Coupling MCOM</i>		
				

MALLEABLE IRON PIPE FITTINGS

Working Pressures:

Galvanised fittings have average thickness of 86µm minimum or average coating weight of 610g/m²

Black fittings are subject to enquiry. Suitable for steam, air, water, gas, oil and for many other fluids, the recommended working pressures and shown in the table below.

Constituents of Internal Fluids	Maximum (kPa)	Working Pressure (psi)
Steam, Air, Gas & Oil at 300°C	981	142
Steam, Air, Gas, Oil & Water at 220°C	1373	200
Steam, Air, Gas, Oil & Water up to 120°C	2450	350

Pipe Fittings

BUTT WELD FITTINGS

Specifications:

Butt weld fittings to ANSI B16.9
ASTM/ASME234 AISA Grade WPB 2003

*Cap
BCAP*



*180° Bend
BBEN*



*Tee
BTee*



*90° Long Radius Elbow
BLRE*



*45° Elbow
BLRE*



*90° Short Radius Elbow
BSRE*



*Reducing Tee
BTee*



*Concentric Reducer
BCR*

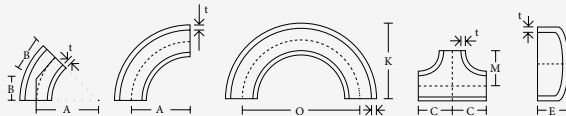


*Eccentric Reducer
BER*



Pipe Fittings

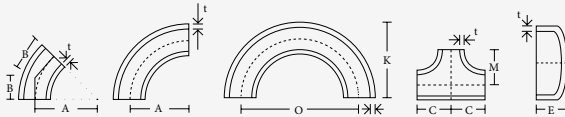
BUTT WELD FITTINGS



ATSM A234 WPB STD & EXTRA STRONG

Nom. Pipe Size	Outside Dia.	STD/40 Inside Dia.	XS/80 Inside Dia.	WALL								LONG RADIUS							
				Pipe Schedule and Thickness "T"								45° Elbows				90° Elbows			
				Pipe Sch	T 40/STD		Pipe Sch	T 80/XS		Centre to Face 'B'	Approx Wt		Centre to Face	Approx Wt		Back to Face 'K'		180° Returns Centre to Centre 'O'	
15	21.3	15.8	13.87	40/STD	2.77	80/XS	3.73	15.9	15.9	0.038	0.048	38.1	0.076	0.097	47.63	47.63	76.2		
1/2	0.840	0.622	0.546		0.109		0.147	0.625	0.625	0.08	0.106	1.500	0.168	0.214	1.8750	1.8750	3.00		
20	26.7	20.9	18.85	40/STD	2.87	80/XS	3.91	11.1	11.3	0.038	0.049	28.6	0.076	0.098	42.86	42.86	57.2		
3/4	1.050	0.824	0.742		0.113		0.154	0.438	0.438	0.08	0.108	1.125	0.168	0.216	1.6875	1.6875	2.25		
25	33.4	26.6	24.31	40/STD	3.38	80/XS	4.55	22.2	22.2	0.075	0.096	38.1	0.150	0.193	55.56	55.56	76.2		
1	1.315	1.049	0.957		0.133		0.179	0.875	0.875	0.17	0.212	1.500	0.331	0.426	2.1875	2.1875	3.00		
32	42.2	35.1	32.46	40/STD	3.56	80/XS	4.85	25.4	25.4	0.126	0.167	47.6	0.253	0.334	69.85	69.85	95.3		
1 1/4	1.660	1.380	1.278		0.140		0.191	1.000	1.000	0.28	0.368	1.875	0.558	0.736	2.7500	2.7500	3.75		
40	48.3	40.9	38.10	40/STD	3.68	80/XS	5.08	28.6	28.6	0.182	0.242	57.2	0.363	0.485	82.55	82.55	114.3		
1 1/2	1.900	1.610	1.500		0.145		0.200	1.125	1.125	0.40	0.534	2.25	0.800	1.07	3.2500	3.2500	4.5		
50	60.3	52.5	49.25	40/STD	3.91	80/XS	5.54	34.9	34.9	0.326	0.447	76.2	0.651	0.894	106.4	106.4	152.4		
2	2.375	2.067	1.939		0.154		0.218	1.375	1.375	0.72	0.986	3.00	1.44	1.97	4.1875	4.1875	6.0		
65	73.0	62.7	59.00	40/STD	5.16	80/XS	7.01	44.5	44.5	0.645	0.850	95.3	1.29	1.70	131.8	131.8	190.5		
2 1/2	2.875	2.469	2.323		0.203		0.276	1.750	1.750	1.42	1.87	3.75	2.84	3.75	5.1875	5.1875	7.5		
80	88.9	77.9	73.66	40/STD	5.49	80/XS	7.62	50.8	50.8	1.01	1.37	114	2.02	2.74	158.8	158.8	228.6		
3	3.500	3.068	2.900		0.216		0.300	2.000	2.000	2.23	3.02	4.50	4.45	6.04	6.2500	6.2500	9.0		
90	101.6	90.1	85.45	40/STD	5.74	80/XS	8.08	57.2	57.2	1.41	1.95	133	2.84	3.90	184.2	184.2	266.7		
3 1/2	4.000	3.548	3.364		0.226		0.318	2.250	2.250	3.11	4.30	5.25	6.26	8.60	7.2500	7.2500	10.5		
100	114.3	102.3	97.18	40/STD	6.02	80/XS	8.56	63.5	63.5	1.92	2.67	152	3.84	5.34	209.6	209.6	304.8		
4	4.500	4.026	3.826		0.237		0.337	2.500	2.500	4.23	5.89	6.0	8.47	11.77	8.2500	8.2500	12		
125	141.3	128.2	122.3	40/STD	6.55	80/XS	9.53	79.4	79.4	3.26	4.62	191	6.51	9.25	261.9	261.9	381.0		
5	5.563	5.047	4.813		0.258		0.375	3.125	3.125	7.19	10.2	7.5	14.4	20.4	10.3125	10.3125	15		
150	168.3	154.1	146.3	40/STD	7.11	80/XS	10.97	95.3	95.3	5.05	7.65	229	10.1	15.3	312.7	312.7	457.2		
6	6.625	6.065	5.761		0.280		0.432	3.75	3.75	11.1	16.9	9	22.3	33.7	12.3125	12.3125	18		
200	219.1	202.7	193.7	40/STD	8.18	80/XS	12.70	127	127	10.2	15.4	305	20.3	30.9	414.3	414.3	609.6		
8	8.625	7.981	7.625		0.322		0.500	5.00	5.00	22.5	34.0	12	44.8	68.1	16.3125	16.3125	24		
250	273.1	254.5	247.7	40/STD	9.27	80/XS	12.70	159	159	18.0	24.4	381	36.0	48.8	518		762.0		
10	10.75	10.02	9.750		0.365		0.500	6.25	6.25	39.7	53.8	15	79.4	108	20.39		30		
			242.9	40			15.09					28.7	381		57.4				
			9.562				0.594					63.3	15		127				
300	323.9	304.8	298.5	STD	9.53	XS	12.70	191	191	26.5	35.0	457	53.0	69.9					
12	12.75		12.00		0.375		0.500	7.50	7.50	58.4	77.2	18	117	154					
			303.3	40			17.48	191	191	28.6	47.4	457	57.2	94.7					
			11.94		0.406		0.688	7.50	7.50	63.1	105	18	126	209					
350	355.6	336.6	330.2	STD	9.53	XS	12.70	222	222	34.0	45.0	533	68.0	89.9					
14	14.00		13.25		0.375		0.500	8.75	8.75	75.0	99.2	21	150	198					
			333.3	40			19.05	222	222	39.6	66.0	533	79.1	132					
			13.12		0.438		0.750	8.75	8.75	87.3	146	21	174	291					
400	406.4	387.4	381.0	STD	9.53	XS	12.70	254	254	44.6	59.0	610	89.2	118					
16	16.00		15.25		0.375		0.500	10.00	10.00	98.3	130	24	197	260					
			381.0	40			21.44	254	254	59.0	97.5	610	118	195					
			15.00		0.500		0.844	10.00	10.00	130	215	24	260	430					
450	457.2	438.2	431.8	STD	9.53	XS	12.70	286	286	56.5	75.0	686	113	150					
18	18.00		17.25		0.375		0.500	11.25	11.25	125	165	27	249	331					
			428.8	40			23.83	286	286	84.0	137	686	168	274					
			16.88		0.562		0.938	11.25	11.25	185	302	27	370	604					
500	508.0	489.0	482.6	STD	9.53	XS	12.70	318	318	70	92.5	762	140	185					
20	20.00		19.25		0.375		0.500	12.5	12.5	154	204	30	309	408					
			477.8	40			26.19	318	318	110	186	762	219	372					
			18.81		0.594		1.031	12.5	12.5	243	410	30	483	820					
550	558.8	539.8	533.4	STD	9.53	XS	12.70	343	343	85	112	838	170	225					
22	22.00		21.25		0.375		0.500	13.5	13.5	187	247	33	375	496					
			501.7	40			28.58				246	838		491					
			19.75				1.125				542	33		1083					
600	609.6	590.6	584.2	STD	9.53	XS	12.70	381	381	101	134	914	202	268					
24	24.00		23.25		0.375		0.500	15.0	15.0	223	295	36	445	591					
			574.5	40			30.96	381	381	183	317	914	366	634					
			22.62		0.688		1.219	15.0	15.0	403	699	36	807	1398					

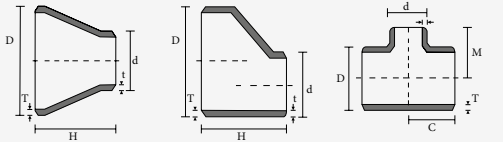
BUTT WELD FITTINGS



		SHORT RADIUS										EQUAL TEES				CAPS	
Approx Wt		90° Elbows				180° Returns				Centre to end		Approx Weight		Length E	Approx Weight		
		Centre to Face 'A'		Approx Wt		Back to Face 'K'		Centre to Centre									
40/STD	80/XS	40/STD	80/XS	40/STD	80/XS	40/STD	80/XS	'O'	40/STD	80/XS	C' & M'	40/STD	80/XS		40/STD	80/XS	
0.152	0.194										25.4	0.083	0.106	25.4	0.037	0.050	
0.335	0.428										1.000	0.183	0.234	1.0	0.082	0.110	
0.156	0.196										28.6	0.111	0.159	25.4	0.048	0.065	
0.344	0.432										1.125	0.245	0.351	1.0	0.106	0.143	
0.300	0.386	25.40	25.40	0.100	0.129	41.3	41.3	50.8	0.200	0.258	38.1	0.244	0.316	38.1	0.106	0.143	
0.662	0.851	1.00	1.00	0.221	0.284	1.625	1.625	2.0	0.441	0.569	1.500	0.538	0.697	1.5	0.234	0.315	
0.506	0.668	31.75	31.75	0.169	0.222	52.4	52.4	63.5	0.338	0.444	47.6	0.457	0.548	38.1	0.141	0.193	
1.12	1.47	1.25	1.25	0.373	0.490	2.0625	2.0625	2.5	0.745	0.979	1.875	1.01	1.21	1.5	0.311	0.426	
0.726	0.970	38.1	38.1	0.242	0.323	61.9	61.9	76.2	0.484	0.646	57.2	0.714	0.800	38.1	0.169	0.234	
1.60	2.14	1.5	1.5	0.534	0.712	2.4375	2.4375	3	1.07	1.42	2.250	1.57	1.76	1.5	0.373	0.516	
1.30	1.79	50.8	50.8	0.434	0.596	81.0	81.0	101.6	0.868	1.19	63.5	0.992	1.19	38.1	0.234	0.331	
2.87	3.95	2.0	2.0	0.957	1.31	3.1875	3.1875	4	1.91	2.62	2.500	2.19	2.62	1.5	0.516	0.730	
2.58	3.40	63.5	63.5	0.860	1.14	100.0	100.0	127.0	1.72	2.28	76.2	1.90	2.19	38.1	0.393	0.534	
5.69	7.50	2.5	2.5	1.90	2.51	3.9375	3.9375	5	3.79	5.03	3.000	4.19	4.83	1.5	0.867	1.18	
4.04	5.48	76.2	76.2	1.35	1.83	120.7	120.7	152.4	2.70	3.66	85.7	2.85	3.24	50.8	0.660	0.917	
8.91	12.1	3.0	3.0	2.98	4.04	4.75	4.75	6	5.95	8.07	3.375	6.28	7.14	2.0	1.46	2.02	
5.68	7.80	88.9	88.9	1.89	2.60	139.7	139.7	177.8	3.78	5.20	95.3	3.63	5.07	63.5	0.965	1.36	
12.5	17.2	3.5	3.5	4.17	5.73	5.50	5.50	7	8.33	11.5	3.750	8.00	11.2	2.5	2.13	3.00	
7.68	10.7	102	102	2.56	3.56	158.8	158.8	203.2	5.12	7.12	105	4.83	5.77	63.5	1.17	1.67	
16.9	23.6	4	4	5.64	7.85	6.25	6.25	8	11.3	15.7	4.125	10.7	12.7	2.5	2.58	3.68	
13.0	18.5	127	127	4.34	6.17	196.9	196.9	254.0	8.68	12.3	124	8.00	9.28	76.2	1.91	2.78	
28.7	40.8	5	5	9.57	13.6	7.75	7.75	10	19.1	27.1	4.875	17.6	20.5	3.0	4.21	6.13	
20.2	30.6	152	152	6.76	10.2	236.5	236.5	304.8	13.5	20.4	143	10.2	15.9	88.9	2.90	4.47	
44.5	67.5	6	6	14.9	22.5	9.3125	9.3125	12	29.8	45.0	5.625	22.5	35.1	3.5	6.39	9.86	
40.6		203	203	13.6	20.6	312.7	312.7	406.4	27.2	41.2	178	22.9	29.0	101.6	5.19	8.05	
89.5		8	8	30.0	45.4	12.3125	12.3125	16	60.0	90.8	7.0	50.5	63.9	4.0	11.4	17.8	
80		254	254	24.0	32.5	390.5	390.5	508.0	60.0		216	36.6	49.0	127	9.15	12.5	
177		10	10	52.9	71.7	15.38	15.38	20	132		8.5	80.7	108	5.0	20.2	27.6	
		254	254		38.2								60.8	152		16.85	
		10	10		84.2								134	6.0		37.0	
		305	305	35.3	46.6						254	58.4	75.8	152	13.3	17.7	
		12	12	77.8	103						10.0	129	167	6.0	29.3	39.0	
		305	305	38.1	63.2						254	58.4	95.8	152	14.4	27.1	
		12	12	84.0	139						10.0	129	211	6.0/7.0	31.8	59.8	
		356	356	45.4	59.9						279	83.2	92.1	165	15.9	21.2	
		14	14	100	132						11.0	183	203	6.5	35.1	46.7	
		356	356	52.7	88.2						279	83.2	129	165	18.8	35.0	
		14	14	116	194						11.0	183	284	6.5/7.5	41.5	77.2	
		406	406	59.4	78.6						305	96.3	110	178	20.0	40.1	
		16	16	131	173						12.0	212	243	7.0	44.1	88.4	
		406	406	78.6	130						305	110	173	178	26.7	49.1	
		16	16	173	287						12.0	243	381	7.0/8.0	58.9	108	
		457	457	75.4	99.9						343	131	139	203	25.6	34.1	
		18	18	166	220						13.5	289	306	8.0	56.4	75.2	
		457	457	112	183						343	156	253	203	41.4	69.1	
		18	18	247	404						13.5	344	558	9.0	91.3	152	
		508	508	93.3	124						381	173	173	229	31.9	42.5	
		20	20	206	273						15	381	381	9.0	70.3	93.7	
		508	508	146	248						381	204	353	229	54.0	93.7	
		20	20	322	547						15	450	778	10.0	119	207	
											419	235	235	254	38.8	51.7	
											16.5	518	518	10.0	85.6	114	
													453	254		116	
													999	10.0		256	
											432	274	274	267	45.1	60.1	
											17.0	604	604	10.5	99.4	132	
											432	299	548	305	90.1	160	
											17.0	659	1208	12.0	198	353	

Pipe Fittings

BUTT WELD FITTINGS



Nominal Pipe Size	Run OD (D)	Branch OD (d)	WALL THICKNESS						REDUCERS				REDUCING TEES			
			40/STD Wall Thickness			80/XS Wall Thickness			Centre to End							
			Pipe Sch	Run T	Branch T	Pipe Sch	Run T	Branch T	Length H	Approx. Wt. 40/STD	Run 80/XS	Branch C	Approx. Wt. M	40/STD	80/XS	
20 x 15	26.7	21.3	40/STD	2.87	2.77	80/XS	3.91	3.73	38.1	0.059	0.750	28.6	28.6	0.115	0.150	
3/4 x 1/2	1.050	0.840	40/STD	0.113	0.109	80/XS	0.154	0.147	1.1/2	0.130	0.165	1.1/8	1.1/8	0.254	0.331	
25 x 20	33.4	26.7	40/STD	3.38	2.87	80/XS	4.55	3.91	50.8	0.116	0.147	38.1	38.1	0.227	0.293	
1 x 3/4	1.315	1.050	40/STD	0.133	0.113	80/XS	0.179	0.154	2	0.256	0.324	1.1/2	1.1/2	0.501	0.646	
25 x 15	33.4	21.3	40/STD	3.38	2.77	80/XS	4.55	3.73	50.8	0.105	0.133	38.1	38.1	0.218	0.281	
1 x 1/2	1.315	0.840	40/STD	0.133	0.109	80/XS	0.179	0.147	2	0.232	0.293	1.1/2	1.1/2	0.481	0.620	
32 x 25	42.2	33.4	40/STD	3.56	3.38	80/XS	4.85	4.55	50.8	0.157	0.206	47.6	47.6	0.389	0.511	
1 1/4 x 1	1.660	1.315	40/STD	0.140	0.133	80/XS	0.191	0.179	2	0.346	0.454	1.7/8	1.7/8	0.858	1.127	
32 x 20	42.2	26.7	40/STD	3.56	2.87	80/XS	4.85	3.91	50.8	0.143	0.187	47.6	47.6	0.367	0.483	
1 1/4 x 3/4	1.660	1.050	40/STD	0.140	0.113	80/XS	0.191	0.154	2	0.315	0.412	1.7/8	1.7/8	0.809	1.065	
32 x 15	42.2	21.3	40/STD	3.56	2.77	80/XS	4.85	3.73	50.8	0.132	0.171					
1 1/4 x 1/2	1.660	0.840	40/STD	0.140	0.109	80/XS	0.191	0.147	2	0.291	0.377					
40 x 32	48.3	42.2	40/STD	3.68	3.56	80/XS	5.08	4.85	63.5	0.243	0.324	57.1	57.1	0.678	0.775	
1 1/2 x 1 1/4	1.900	1.660	40/STD	0.145	0.140	80/XS	0.200	0.191	2.1/2	0.536	0.714	2.1/4	2.1/4	1.495	1.709	
40 x 25	48.3	33.4	40/STD	3.68	3.38	80/XS	5.08	4.55	63.5	0.219	0.291	57.1	57.1	0.545	0.725	
1 1/2 x 1	1.900	1.315	40/STD	0.145	0.133	80/XS	0.200	0.179	2.1/2	0.483	0.642	2.1/4	2.1/4	1.202	1.599	
40 x 20	48.3	26.7	40/STD	3.68	2.87	80/XS	5.08	3.91	63.5	0.201	0.266	57.1	57.1	0.518	0.690	
1 1/2 x 3/4	1.900	1.050	40/STD	0.145	0.113	80/XS	0.200	0.154	2.1/2	0.443	0.587	2.1/4	2.1/4	1.142	1.521	
50 x 40	60.3	48.3	40/STD	3.91	3.68	80/XS	5.54	5.08	76.2	0.372	0.508	63.5	60.3	0.931	1.11	
2 x 1 1/2	2.375	1.900	40/STD	0.154	0.145	80/XS	0.218	0.200	3	0.820	1.120	2.3/8	2.3/8	2.053	2.45	
50 x 32	60.3	42.2	40/STD	3.91	3.56	80/XS	5.54	4.85	76.2	0.352	0.478	63.5	57.1	0.887	1.07	
2 x 1 1/4	2.375	1.660	40/STD	0.154	0.140	80/XS	0.218	0.191	3	0.776	1.054	2.1/2	2.1/4	1.956	2.36	
50 x 25	60.3	33.4	40/STD	3.91	3.38	80/XS	5.54	4.55	76.2	0.322	0.438	63.5	50.8	0.742	0.922	
2 x 1	2.375	1.315	40/STD	0.154	0.133	80/XS	0.218	0.179	3	0.710	0.966	2.1/2	2	1.636	2.25	
50 x 20	60.3	26.7	40/STD	3.91	2.87	80/XS	5.54	3.91	76.2	0.300	0.406					
2 3/4 x 2	2.375	1.050	40/STD	0.154	0.113	80/XS	0.218	0.154	3	0.661	0.895					
65 x 50	73.0	60.3	40/STD	5.16	3.91	80/XS	7.01	5.54	88.9	0.724	0.918	76.2	69.8	1.53	1.99	
2 1/2 x 2	2.875	2.375	40/STD	0.203	0.154	80/XS	0.276	0.218	3.1/2	1.596	2.026	3	2.34	3.37	4.39	
65 x 40	73.0	48.3	40/STD	5.16	3.68	80/XS	7.01	5.08	88.9	0.661	0.831	76.2	66.7	1.47	1.90	
2 1/2 x 1 1/2	2.875	1.900	40/STD	0.203	0.145	80/XS	0.276	0.200	3.1/2	1.458	1.832	3	2.58	3.24	4.19	
65 x 32	73.0	42.2	40/STD	5.16	3.36	80/XS	7.01	4.85	88.9	0.630	0.789	76.2	63.5	1.56	1.86	
2 1/2 x 1 1/4	2.875	1.660	40/STD	0.203	0.140	80/XS	0.276	0.191	3.1/2	1.389	1.740	3	2.1/2	3.44	4.10	
65 x 25	73.0	33.4	40/STD	5.16	3.38	80/XS	7.01	4.55	88.9	0.585	0.727					
2 1/2 x 1	2.875	1.315	40/STD	0.203	0.133	80/XS	0.276	0.179	3.1/2	1.230	1.603					
80 x 65	88.9	73.0	40/STD	5.49	5.16	80/XS	7.62	7.01	88.9	0.933	1.23	85.7	82.5	2.27	3.04	
3 x 2 1/2	3.500	2.875	40/STD	0.216	0.203	80/XS	0.300	0.276	3.1/2	2.06	2.71	3.3/8	3.1/4	5.01	6.70	
80 x 50	88.9	60.3	40/STD	5.49	3.91	80/XS	7.62	5.54	88.9	0.846	1.13	85.7	76.2	2.14	2.85	
3 x 2	3.500	2.375	40/STD	0.216	0.154	80/XS	0.300	0.218	3.1/2	1.87	2.49	3.3/8	3	4.72	6.28	
80 x 40	88.9	48.3	40/STD	5.49	3.68	80/XS	7.62	5.08	88.9	0.783	1.04	85.7	73.0	2.08	2.76	
3 x 1 1/2	3.500	1.900	40/STD	0.216	0.145	80/XS	0.300	0.220	3.1/2	1.73	2.29	3.3/8	2.7/8	4.59	6.09	
80 x 32	88.9	42.2	40/STD	5.49	3.36	80/XS	7.62	4.85	88.9	0.753	0.956					
3 x 1 1/4	3.500	1.660	40/STD	0.216	0.140	80/XS	0.300	0.191	3.1/2	1.66	2.11					
90 x 80	101.6	88.9	40/STD	5.74	5.49	80/XS	8.08	7.62	101.6	1.280	1.77	95.2	92.1	4.88	6.48	
3 1/2 x 3	4.000	3.500	40/STD	0.226	0.216	80/XS	0.318	0.290	4	2.82	3.90	3.3/4	3.5/8	10.8	14.8	
90 x 65	101.6	73.0	40/STD	5.74	5.16	80/XS	8.08	7.01	101.6	1.280	1.62	95.2	88.9	4.53	6.63	
3 1/2 x 2 1/2	4.000	2.875	40/STD	0.226	0.203	80/XS	0.318	0.276	4	2.71	3.57	3.3/4	3.1/2	9.99	10.2	
90 x 50	101.6	60.3	40/STD	5.74	3.91	80/XS	8.08	5.54	101.6	1.100	1.51	95.2	82.5	4.35	6.35	
3 1/2 x 2	4.000	2.375	40/STD	0.226	0.154	80/XS	0.318	0.218	4	2.43	3.33	3.3/4	3.1/4	9.59	9.99	
90 x 40	101.6	48.3	40/STD	5.74	3.68	80/XS	8.08	5.08	101.6	1.020	1.41	95.2	79.4	4.26	6.27	
3 1/2 x 1 1/2	4.000	1.900	40/STD	0.226	0.145	80/XS	0.318	0.200	4	2.25	3.11	3.3/4	3.1/8	9.39	9.42	
100 x 90	114.3	101.6	40/STD	6.02	5.74	80/XS	8.56	8.08	101.6	1.54	2.14	104.8	101.6	6.62	9.25	
4 x 3 1/2	4.500	4.000	40/STD	0.237	0.226	80/XS	0.337	0.318	4	3.40	4.72	4.1/8	4	10.2	13.3	
100 x 80	114.3	88.9	40/STD	6.02	5.49	80/XS	8.56	7.62	101.6	1.45	2.02	104.8	98.42	6.32	8.53	
4 x 3	4.500	3.500	40/STD	0.237	0.216	80/XS	0.337	0.300	4	3.20	4.45	4.1/8	3.7/8	8.42	11.8	
100 x 65	114.3	73.0	40/STD	6.02	5.16	80/XS	8.56	7.01	101.6	1.37	1.86	104.8	95.25	3.69	5.14	
4 x 2 1/2	4.500	2.875	40/STD	0.237	0.203	80/XS	0.337	0.276	4	3.02	4.10	4.1/8	3.3/4	8.14	11.4	
100 x 50	114.3	60.3	40/STD	6.02	3.91	80/XS	8.56	5.54	101.6	1.27	1.76	104.8	88.9	3.65	5.44	
4 x 2	4.500	2.375	40/STD	0.237	0.154	80/XS	0.337	0.218	4	2.80	3.88	4.1/8	3.1/2	7.83	10.9	
125 x 100	141.3	114.3	40/STD	6.55	6.02	80/XS	9.53	8.56	127	2.50	3.52	123.8	117.5	6.18	8.69	
5 x 4	5.563	4.500	40/STD	0.258	0.237	80/XS	0.375	0.337	5	5.51	7.76	4.7/8	4.5/8	13.6	19.2	
125 x 90	141.3	101.6	40/STD	6.55	5.74	80/XS	9.53	8.08	127	2.38	3.34	123.8	114.3	6.34	8.81	
5 x 3 1/2	5.563	4.000	40/STD	0.258	0.226	80/XS	0.375	0.318	5	5.25	7.38	4.7/8	4.1/2	14.0	19.4	
125 x 80	141.3	88.9	40/STD	6.55	5.49	80/XS	9.53	7.62	127	2.27	3.18	123.8	111.1	8.10	18.9	
5 x 3	5.563	3.500	40/STD	0.258	0.216	80/XS	0.375	0.300	5	5.01	7.01	4.7/8	4.3/8	17.9	18.9	
150 x 65	141.3	73.0	40/STD	6.55	5.16	80/XS	9.53	7.01	127	2.16	3.01	123.8	108.0	6.08	8.38	
5 x 2 1/2	5.563	2.875	40/STD	0.258	0.203	80/XS	0.375	0.276	5	4.76	6.64	4.7/8	4.1/4	13.4	18.5	
150 x 125	168.3	141.3	40/STD	7.11	6.55	80/XS	10.97	9.53	139.7	3.57	5.38	142.9	136.5	9.22	14.0	
6 x 5	6.625	5.563	40/STD	0.280	0.258	80/XS	0.432	0.375	5.1/2	7.87	11.9	5.5/8	5.3/8	20.3	30.9	
150 x 100	168.3	114.3	40/STD	7.11	6.02	80/XS	10.97	8.56	139.7	3.30	4.96	142.9	130.2	8.81	13.5	
5 x 4	6.625	4.500	40/STD	0.280	0.237	80/XS	0.432	0.337	5.1/2	7.29	10.9	5.5/8	5.1/8	19.4	28.9	
150 x 90	168.3	101.6	40/STD	7.11	5.74	80/XS	10.97	8.08	139.7	3.17	4.76	142.9	127.0	8.83	13.1	
6 x 3 1/2	6.625	4.000	40/STD	0.280	0.226	80/XS	0.432	0.318	5.1/2	6.99	10.5	5.5/8	5	19.7	28.9	
150 x 80	168.3	88.9	40/STD	7.11	5.49	80/XS	10.97	7.62	139.7	3.04	4.56	142.9	123.8	8.52	12.9	
5 x 3	6.625	3.500	40/STD	0.280	0.216	80/XS	0.432	0.300	5.1/2	6.70	10.1	5.5/8	4.7/8	18.8	28.4	
150 x 65	168.3	73.0														

Nominal Pipe Size	Run OD (D)	Branch OD (d)	WALL THICKNESS						REDUCERS						REDUCING TEES					
			40/STD Wall Thickness			80/XS Wall Thickness			CENTRE TO END			REDUCING TEES								
			Pipe Sch	Run T	Branch T	Pipe Sch	Run T	Branch T	Length H	Run 40/STD	Run 80/XS	Branch C	Approx. Wt.	Run 40/STD	Run 80/XS	Branch C	Approx. Wt.			
250 x 200	273.1	219.1	40/STD	9.27	8.18	XS	12.70	12.70	177.8	8.58	12.9	215.9	215.9	21.2	8	32.4	43.9			
10 x 8	10.750	8.625		0.365	0.322		0.500	0.500	7	21.12	28.4	8	8	8	8	8	71.4	96.8		
250 x 150	273.1	168.3	40/STD	9.27	7.11	XS	12.70	10.97	177.8	8.78	11.8	215.9	193.7	10	8	30.5	42.0			
10 x 6	10.750	6.625		0.365	0.280		0.500	0.432	7	19.36	26.0	8	8	8	8	8	67.3	92.6		
250 x 125	273.1	141.3	40/STD	9.27	6.35	XS	12.70	8.52	177.8	8.42	11.3	215.9	190.5	10	8	30.1	41.3			
10 x 5	10.750	5.563		0.365	0.258		0.500	0.375	7	18.57	24.9	8	8	8	8	8	66.4	91.1		
250 x 100	273.1	114.3	40/STD	9.27	6.02	XS	12.70	8.56	177.8	8.06	10.8	215.9	187.8	10	8	29.7	40.8			
10 x 4	10.750	4.500		0.365	0.237		0.500	0.337	7	17.77	23.8	8	8	8	8	8	64.0	88.0		
250 x 200	273.1	219.1				80	15.09	12.70	177.8	9.6	15.4	215.9	203.2	10	8	32.4	51.9			
10 x 8	10.750	8.625		0.365	0.322		0.594	0.500	7	21.12	28.4	8	8	8	8	8	71.4	96.9		
250 x 150	273.1	168.3				80	15.09	10.97	177.8	8.78	14.2	215.9	193.7	10	8	30.5	50.0			
10 x 6	10.750	6.625		0.365	0.280		0.594	0.432	7	19.36	31.3	8	8	8	8	8	67.3	110		
250 x 125	273.1	141.3				80	15.09	9.53	177.8	8.42	13.5	215.9	190.5	10	8	30.1	49.2			
10 x 5	10.750	5.563		0.365	0.258		0.594	0.375	7	18.57	29.8	8	8	8	8	8	66.4	108		
250 x 100	273.1	114.3				80	15.09	8.56	177.8	8.06	12.9	215.9	187.8	10	8	29.7	117.2			
10 x 4	10.750	4.500					0.594	0.337	7	17.77	28.4									
300 x 250	323.9	273.1	STD	9.53	9.27	XS	12.70	12.70	203.2	13.6	18.0	254.0	241.3	10	8	55.2	71.8			
12 x 10	12.750	10.750		0.375	0.365		0.500	0.500	8	29.99	39.7	10	10	10	10	10	122	158		
300 x 200	323.9	219.1	STD	9.53	8.18	XS	12.70	12.70	203.2	12.7	16.7	254.0	228.5	10	8	53.7	62.9			
12 x 8	12.750	8.625		0.375	0.322		0.500	0.500	8	28.00	36.8	10	10	10	10	10	117	139		
300 x 150	323.9	168.3	STD	9.53	7.11	XS	12.70	10.97	203.2	11.8	15.6	254.0	219.1	10	8	51.2	61.0			
12 x 6	12.750	6.625		0.375	0.280		0.500	0.432	8	26.02	34.4	10	10	10	10	10	113	135		
300 x 125	323.9	141.3	STD	9.53	6.55	XS	12.70	9.53	203.2	11.4	15.0	254.0	214.3	10	8	50.7	60.5			
12 x 5	12.750	5.563		0.375	0.258		0.500	0.375	8	25.14	31.1	10	10	10	10	10	111	133		
300 x 250	323.9	273.1	40	10.31	9.27	XS	12.70	15.09	203.2	14.7	24.8	254.0	241.3	10	8	55.2	90.5			
12 x 10	12.750	10.750		0.406	0.365		0.688	0.594	8	32.41	54.7	10	10	10	10	10	122	200		
300 x 200	323.9	219.1	40	10.31	8.18	XS	12.70	17.48	203.2	13.7	22.7	254.0	228.5	10	8	53.1	77.1			
12 x 8	12.750	8.625		0.406	0.322		0.688	0.500	8	30.21	50.1	10	10	10	10	10	117	170		
300 x 150	323.9	168.3	40	10.31	7.11	XS	12.70	17.48	203.2	12.4	25.4	254.0	219.1	10	8	51.2	75.2			
12 x 6	12.750	6.625		0.406	0.280		0.688	0.432	8	28.22	47.2	10	10	10	10	10	113	166		
300 x 125	323.9	141.3	40	10.31	6.55	XS	12.70	17.48	203.2	12.3	20.6	254.0	214.3	10	8	50.7	74.3			
12 x 5	12.750	5.563		0.406	0.258		0.688	0.432	8	27.12	45.4	10	10	10	10	10	111	158		
350 x 300	355.6	323.9	STD	9.53	9.53	XS	12.70	12.70	330.2	25.4	33.6	279.4	269.9	10	8	79.4	89.5			
14 x 12	14.000	12.750		0.375	0.375		0.500	0.500	13	56.01	74.1	14	14	14	14	14	168	191		
350 x 250	355.6	273.1	STD	9.53	9.27	XS	12.70	12.70	330.2	23.2	31.2	279.4	259.9	10	8	76.1	85.5			
14 x 10	14.000	10.750		0.375	0.365		0.500	0.500	13	52.04	68.8	11	11	11	11	11	168	189		
350 x 200	355.6	219.1	STD	9.53	8.18	XS	12.70	12.70	330.2	21.8	28.9	279.4	247.7	10	8	73.3	78.3			
14 x 8	14.000	8.625		0.375	0.322		0.500	0.500	13	48.07	63.7	14	14	14	14	14	168	189		
350 x 300	355.6	323.9	40	11.13	10.31	XS	12.70	17.48	330.2	26.5	49.6	279.4	269.9	10	8	79.4	123			
14 x 12	14.000	12.750		0.438	0.406		0.750	0.688	13	65.05	109.8	11	11	11	11	11	175	271		
350 x 250	355.6	273.1	40	11.13	9.27	XS	12.70	15.09	330.2	27.4	46.1	279.4	257.2	10	8	76.1	108			
14 x 10	14.000	10.750		0.438	0.365		0.750	0.594	13	60.42	101.7	11	11	11	11	11	168	238		
350 x 200	355.6	219.1	40	11.13	8.18	XS	12.70	15.09	330.2	25.4	42.2	279.4	247.7	10	8	73.3	103			
14 x 8	14.000	8.625		0.438	0.322		0.750	0.500	13	56.01	91.1	11	11	11	11	11	168	227		
400 x 350	406.4	355.6	STD	9.53	9.53	XS	12.70	12.70	355.6	31.0	41.1	304.8	304.8	10	8	89.5	108			
16 x 14	16.000	14.000		0.375	0.375		0.500	0.500	14	68.36	90.6	12	12	12	12	12	238	305		
400 x 300	406.4	323.9	STD	9.53	9.53	XS	12.70	12.70	355.6	29.6	39.2	304.8	295.3	10	8	87.7	108			
16 x 12	16.000	12.750		0.375	0.375		0.500	0.500	14	65.27	88.4	12	12	12	12	12	238	291		
400 x 250	406.4	273.1	STD	9.53	9.27	XS	12.70	12.70	355.6	27.8	36.8	304.8	282.6	10	8	82.4	101			
16 x 10	16.000	10.750		0.375	0.365		0.500	0.500	14	61.30	81.1	12	12	12	12	12	238	283		
400 x 350	406.4	355.6	40	12.70	11.13	XS	12.70	19.05	355.6	41.1	67.7	304.8	304.8	10	8	95.2	138			
16 x 14	16.000	14.000		0.500	0.438		0.844	0.750	14	80.63	149	14	14	14	14	14	210	348		
400 x 300	406.4	323.9	40	12.70	10.31	XS	12.70	17.48	355.6	39.2	65.0	304.8	295.3	10	8	91.1	124			
16 x 12	16.000	12.750		0.500	0.406		0.844	0.688	14	86.44	143	12	12	12	12	12	238	335		
400 x 250	406.4	273.1	40	12.70	9.27	XS	12.70	15.09	355.6	36.8	60.8	304.8	282.6	10	8	88.1	147			
16 x 10	16.000	10.750		0.500	0.365		0.844	0.594	14	81.14	134	12	12	12	12	12	238	324		
450 x 400	457.2	406.4	STD	9.53	9.53	XS	12.70	12.70	381	37.8	50.1	342.9	330.2	10	8	101.7	134			
18 x 16	18.000	16.000		0.375	0.375		0.500	0.500	20	122.01	188	15	15	15	15	15	267	399		
450 x 350	457.2	355.6	STD	9.53	9.53	XS	12.70	12.70	381	35.7	47.4	342.9	330.2	10	8	95.2	133			
18 x 14	18.000	14.000		0.375	0.375		0.500	0.500	15	78.72	105	13	13	13	13	13	260	293		
450 x 300	457.2	323.9	STD	9.53	9.53	XS	12.70	12.70	381	34.3	45.5	342.9	330.2	10	8	91.1	114			
18 x 12	18.000	12.750		0.375	0.322		0.500	0.500	15	75.83	100	13	13	13	13	13	260	281		
450 x 400	457.2	406.4	40	14.27	12.70	XS	12.70	23.83	381	56.2	91.4	342.9	330.2	10	8	101.7	133			
18 x 16	18.000	16.000		0.562	0.500		0.938	0.844	15	123.92	202	13	13	13	13	13	298	503		
450 x 350	457.2	355.6	40	14.27	11.13	XS	12.70	23.83	381	53.0	86.4	342.9	330.2	10	8	95.2	123			
18 x 14	18.000	14.000		0.562	0.438		0.938	0.750	15	116.86	191	13	13	13	13	13	291	492		
450 x 300	457.2	323.9	40	14.27	10.31	XS	12.70	23.83	381	51.0	83.3	342.9	330.2	10	8	91.1	114			
18 x 12	18.000	12.750		0.562	0.406		0.9													

Pipe Fittings

FORGED HIGH PRESSURE PIPE FITTINGS

Specifications:

A105N

Please enquire on availability

<i>Elbow 90° WELB</i>	<i>Half Socket WSOC</i>	<i>Elbow 45° WELB</i>	<i>Cap WCAP</i>	<i>Tee WTEE</i>
				
<i>Outlet WLET</i>	<i>Union WUNI</i>	<i>Coupling WSOC</i>	<i>Insert WINS</i>	<i>Boss WBOS</i>
				
<i>Socket WSOC</i>	<i>Plug WPLU</i>	<i>Reducing Hex Nipple WNIP</i>	<i>Reducing Bush WBUS</i>	<i>HEX Nipple WNIP</i>
				
<i>Reducing Socket WSOC</i>	<i>Boss WBOS</i>	<i>MF Street Elbow WELB</i>	Please contact your local Easysteel branch for more details.	
				

Can be sourced in Stainless on an indent basis

Pipe Fittings

FLANGES AND FLANGE TABLES

Product Shortname:

F150, F300, F600, FTD, FTE, FTH, PN16

Specification:

F150/F300/F60: ASME B16.5 A105

TD/TE/TH: AS 2129 A105 - forged

BS10-Q235 - plate

PN16: BS4504 A105



THREADED (SCREWED) FLANGES

Made of steel, are confined to special applications. Their chief merit is that they can be assembled without welding: this explains their use in extremely high pressure services, particularly at or near atmospheric temperature where alloy steel is essential for strength and where the necessary post-weld heat treatment is impractical. Screwed flanges are unsuitable for conditions involving temperature or bending stresses of any magnitude, particularly under cyclic conditions where leakage through the threads may occur in relatively few cycles of heating or stress: seal welding is sometimes employed to overcome this, but cannot be considered as entirely satisfactory.

SLIP ON FLANGES

Continue to be preferred to welding neck flanges by many users due to their initially lower cost, the reduced accuracy required in cutting pipe to length and the somewhat greater ease of assembly alignment; however their final installed cost is probably not much, if any, less than that of welding neck flanges. Their calculated strength under internal pressure is of the order of two-thirds that of welding neck flanges, while their life under fatigue is about one-third. For these reasons slip on flanges are limited to sizes 1/2" to 2 1/2" in the 1500lb standard, are not shown in the 2500lb standard and the ASME Boiler Construction Code limits their use to the 4" size.

WELDING NECK FLANGES

Are distinguished from other types by their long tapered hub and gentle transition of thickness in the region of the butt weld joining them to the pipe. The long tapered hub provides an important reinforcement of the flange proper from the standpoint of strength and resistance to dishing. The smooth transition from flange thickness to pipe wall thickness effected by the taper is extremely beneficial under conditions of repeated bending, caused by line expansion or other variable forces, and produces an endurance strength of welding neck flanged assemblies equivalent to that of a butt welded pipe. Thus this type of flange is preferred for every severe service condition, resulting from high pressure or sub-zero/elevated temperatures, and whether loading conditions are substantially constant or fluctuates between wide limits: welding neck flanges are particularly recommended for handling high explosive, flammable or costly liquids, where loss of tightness or local failure may be accompanied by disastrous consequences.

BLIND FLANGES

Are used to blank off the ends of piping, valves and pressure vessel openings. From the standpoint of internal pressure and bolt loadings, blind flanges, particularly in the larger sizes, are the most highly stressed of all American Standard flange types; however, since the maximum stresses in a blind flange are bending stresses at the centre, they can safely be permitted to be higher than other types of flanges. Where temperature, or repeated severe water hammer, is a service factor, consideration should be given to closures made of welding neck flanges and caps.

Pipe Fittings

D = AS 2129 Table 'D'
 E = AS 2129 Table 'E'
 F = AS 2129 Table 'F'
 H = AS 2129 Table 'H'
 J = ANS.1150 Table 'J'
 150 = KA.504 Class 150
 6 = BS 4504 Table 6 (6bar)
 10 = BS 4504 Table 10 (10 bar)
 16 = BS 4504 Table 16 (16 bar)
 25 = BS 4504 Table 25 (25 bar)
 * 13mm thickness may be used
 ** thickness includes raises face – see Flange standard

Nom. Bore (Rating)	Flange Table	Out. Dia.	No. of Bolt Holes	Bolt Hole Dia.	P.C.D.	Thickness
	D	95	4	14	67	5*
	E	95	4	14	67	6*
	F	95	4	14	67	10*
	H	114	4	18	83	13
	J	114	4	18	83	16
15mm	150	89	4	16	60	11**
	300	95	4	16	67	14**
1/2"	6	80	4	11	55	12**
	10	95	4	14	65	14**
	16	95	4	14	65	14**
	25	95	4	14	65	16**
	D	102	4	14	73	5*
	E	102	4	14	73	6*
	F	102	4	14	73	10*
	H	114	4	18	83	13
	J	114	4	18	83	16
20mm	150	98	4	16	70	13**
	300	117	4	19	83	16**
3/4"	6	90	4	11	65	14**
	10	105	4	14	75	16**
	16	105	4	14	75	16**
	25	105	4	14	75	18**
	D	114	4	14	83	5*
	E	114	4	14	83	7*
	F	121	4	18	87	10*
	H	121	4	18	87	14
	J	121	4	18	87	19
25mm	150	108	4	16	79	14**
	300	124	4	19	89	17**
1"	6	100	4	11	75	14**
	10	115	4	14	85	16**
	16	115	4	14	85	16**
	25	115	4	14	85	18**
	D	121	4	14	87	6*
	E	121	4	14	87	8*
	F	133	4	18	98	13
	H	133	4	18	98	17
	J	133	4	18	98	19
32mm	150	117	4	16	89	16**
	300	133	4	19	98	19**
1 1/4"	6	120	4	14	90	16**
	10	140	4	18	100	16**
	16	140	4	18	100	16**
	25	140	4	18	100	18**
	D	133	4	14	98	6*
	E	133	4	14	98	9*
	F	140	4	18	105	13
	H	140	4	18	105	17
	J	140	4	18	105	22
40mm	150	127	4	16	98	17**
	300	155	4	22	114	21**
1 1/2"	6	130	4	14	100	16**
	10	150	4	18	110	16**
	16	150	4	18	110	16**
	25	150	4	18	110	18**
	D	152	4	18	114	8*
	E	152	4	18	114	10*
	F	165	4	18	127	16
	H	165	4	18	127	25
	J	165	4	22	127	25
50mm	150	152	4	19	121	19**
	300	165	8	19	127	22**
2"	6	140	4	14	110	16**
	10	165	4	18	125	18**
	16	165	4	18	125	18**
	25	165	4	18	125	20**
	D	165	4	18	127	8*
	E	165	4	18	127	10*
	F	184	8	18	146	16
	H	184	8	18	146	19
	J	184	8	22	146	25
65mm	150	178	4	19	140	22**
	300	191	8	22	149	26**
2 1/2"	6	160	4	14	130	16**
	10	185	4	18	145	18**
	16	185	4	18	145	18**
	25	185	8	18	145	22**

Nom. Bore (Rating)	Flange Table	Out. Dia.	No. of Bolt Holes	Bolt Hole Dia.	P.C.D.	Thickness
	D	184	4	18	146	10*
	E	184	4	18	146	11*
	F	203	8	18	165	16
	H	203	8	18	165	22
	J	203	8	22	165	32
80mm	150	191	4	19	152	24**
	300	210	8	22	168	29**
3"	6	190	4	18	150	18**
	10	200	8	18	160	20**
	16	200	8	18	160	20**
	25	200	8	18	160	24**
	D	216	4	18	178	10
	E	216	8	18	178	13
	F	229	8	18	191	19
	H	229	8	18	191	25
	J	229	8	22	191	34
100mm	150	229	8	19	191	24**
	300	254	8	22	200	32**
4"	6	210	4	18	170	18**
	10	220	8	18	180	20**
	16	220	8	18	180	20**
	25	235	8	22	190	24**
	D	254	8	18	210	13
	E	254	8	18	210	14
	F	279	8	22	235	22
	H	279	8	22	235	29
	J	279	8	25	235	38
125mm	150	254	8	22	216	24**
	300	279	8	22	235	35**
5"	6	240	8	18	200	22**
	10	255	8	18	210	22**
	16	250	8	18	210	22**
	25	270	8	26	220	26**
	D	279	8	18	235	13
	E	279	8	22	235	17
	F	305	12	22	260	22
	H	305	12	22	260	29
	J	305	12	25	260	38
150mm	150	279	8	22	241	25**
	300	318	12	22	270	37**
6"	6	265	8	18	225	20**
	10	285	8	22	240	22**
	16	285	8	22	240	22**
	25	300	8	26	250	28**
	D	337	8	18	292	13
	E	337	8	22	292	19
	F	368	12	22	324	25
	H	368	12	22	324	32
	J	368	12	25	324	41
200mm	150	343	8	22	298	29**
	300	381	12	25	330	41**
8"	6	320	8	18	280	22**
	10	340	8	22	295	24**
	16	340	12	22	295	24**
	25	360	12	26	310	32**
	D	406	8	22	356	16
	E	406	12	22	356	22
	F	432	12	25	381	25
	H	432	12	25	381	31
	J	432	12	27	381	48
250mm	150	406	12	25	362	30**
	300	444	16	29	387	48**
10"	6	375	12	18	335	24**
	10	395	12	22	350	26**
	16	405	12	26	355	26**
	25	425	12	30	370	32**
	D	457	12	22	406	16
	E	457	12	25	406	25
	F	489	16	25	438	29
	H	489	16	25	438	38
	J	489	16	27	438	51
300mm	150	482	12	25	431	32**
	300	520	16	32	450	51**
12"	6	440	12	22	395	24**
	10	445	12	22	400	26**
	16	460	12	26	410	28**
	25	485	16	30	430	38**

Pipe Fittings

MASTERKLAMP $\emptyset$ outside pipe (mm). Product Shortname: CLIP

	4.13 Ø  33.7 42.4 48.3 Side Palm	4.20 Ø  34 42 48.3 Single Sided Collar Plate	4.21  48.3 Double Sided Collar Plate		
5.01 Ø  26.9 33.7 42.4 48.3 Male Single Swivel	5.02 Ø  33.7 42.4 48.3 Male Double Swivel	5.03 Ø  33.7 42.4 48.3 Male Corner Swivel	5.09  26.9 33.7 42.4 48.3 60 Female Single Swivel		
5.11 Ø  26.9 33.7 42.4 48.3 Single Swivel Combination	5.12 Ø  33.7 42.4 48.3 Double Swivel Combination	5.13 Ø  33.7 42.4 48.3 Corner Swivel Combination	6.01  26.9 33.7 42.4 48.3 60.3 Straight Coupling		
6.03 Ø  42.4 48.3	6.06 Ø  33.7 42.4 48.3	6.08 Ø  33.7 42.4 48.3	6.09  33.7 42.4 48.3		
Pipe information			O.D.	N.B.	N.B.

About Pipes & Sizes:

The actual bore depends on the wall thickness of the pipe. The nominal bore is an arbitrary figure used for descriptive purposes. MASTERKLAMP is manufactured to suit schedule 40 steel pipe or similar.

21.3mm	15mm	1/2"
26.9mm	20mm	3/4"
33.7mm	25mm	1"
42.4mm	32mm	1 1/4"
48.3mm	40mm	1 1/2"
60.3mm	50mm	2"

Pipe Fittings

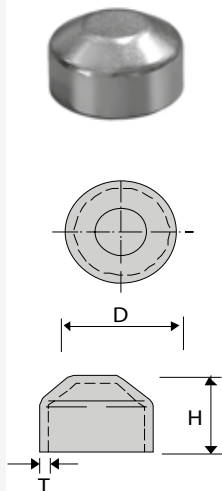
MASTERKLAMP $\varnothing$ outside pipe (mm). Product Shortname: CLIP

1.02 $\varnothing$  Short Tee 26.9 33.7 42.4 48.3 60.3	1.04 $\varnothing$  Long Tee 26.9 33.7 42.4 48.3 60.3	1.05 $\varnothing$  Internal Swivel Tee 360° 33.7 42.4 48.3	1.07 $\varnothing$  Adjustable Tee 30° - 60° 33.7 42.4 48.3
1.08 $\varnothing$  Clamp-on Tee 33.7 42.4 48.3	2.01 $\varnothing$  Two Socket Cross 26.9 33.7 42.4 48.3 60.3	2.02 $\varnothing$  Three Way Mid Corner 26.9 33.7 42.4 48.3 60.3	2.03 $\varnothing$  Three Way Top Corner 26.9 33.7 42.4 48.3 60.3
2.04 $\varnothing$  Two Socket Cross 30° - 45° 33.7 42.4 48.3	2.05 $\varnothing$  Side Outlet Cross 26.9 33.7 42.4 48.3 60.3	2.06 $\varnothing$  Four Socket Cross 26.9 33.7 42.4 48.3	2.07 $\varnothing$  Combi Socket, Tee & Cross 42.4 48.3
2.08 $\varnothing$  Crossover 90° 26.9 33.7 42.4 48.3 60.3	2.09 $\varnothing$  Clamp-on Crossover 90° 33.7 42.4 48.3	2.10 $\varnothing$  Adjustable Swivel Cross (set) 26.9 33.7 42.4 48.3	3.01 $\varnothing$  Elbow 90° 26.9 33.7 42.4 48.3 60.3
3.03 $\varnothing$  Variable Elbow 30° - 60° 33.7 42.4 48.3	4.01 $\varnothing$  Base Flange 26.9 33.7 42.4 48.3 60	4.02 $\varnothing$  Railing Base Flange 26.9 33.7 42.4 48.3 60.3	4.03 $\varnothing$  Horizontal Base Railing Support 33.7 42.4 48.3
4.04 $\varnothing$  Vertical Base Railing Support 33.7 42.4 48.3	4.06 $\varnothing$  Handrail Support 26.9 33.7 42.4 48.3	4.10 $\varnothing$  Uni 21.3 26.9 33.7 42.4 48.3 60.3	4.11 $\varnothing$  Swivel Basel 26.9 33.7 42.4 48.3 60

Fence Fittings

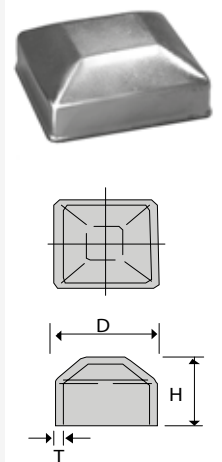
POSTCAPS ROUND PRE-GALVANISED & HDG

Product Shortname: KCAP



Code	To suit NB (mm)	To suit OD (mm)	H (mm)	D (mm)	T (mm)	Weight (mm)
CR20	20	26.9	23	30.5	1.5	25
CR25	25	33.7	28	37.5	1.5	40
CR32	32	42.4	28	46	1.5	48
CR40	40	48.3	30	53	1.5	85
CR50	50	60.3	30	65	1.5	114
CR65	65	76.1	3	82	1.5	153
CR80	80	88.9	30	94	1.5	188
CR90	90	101.6	36	116	1.5	250
CR100	100	114.3	38	120	1.5	289
CR125	125	139.7	40	144	1.5	509
CR150	150	165.1	40	167	1.5	551

POSTCAPS SQUARE PRE-GALVANISED



Code	To suit Tube (mm)	H (mm)	D (mm)	T (mm)	Weight (mm)
CS40	40	22	44	1.5	33
CS50	50	27	56	1.5	50
CS65	65	2	70	1.5	80
CS75	75	29	80	1.5	105
CS100	100	31	106	1.5	159

Other sizes available by request.

PRODUCTS AVAILABLE FROM FLETCHER EASYSTEEL

Merchant Bar

- Flats • Angles • Squares
- Engineering Rounds
- DuraGal Angle
- DuraGal Flat

Structural Sections

- Channels • Universal Beams
- Universal Columns
- Rolled Steel Joists
- Cold Formed Channel
- Purpose Designed Welded Sections
- Hollow Flange Beams
- Sheet Piling
- Steltech Beams

Plate

- Standard Mild Steel Plate
- Medium Strength Plate
- High Strength Plate
- Boiler Quality Plate
- Chequer Floor Plate
- Wear Resistant Plate
- Low Carbon Plate
- Corrosion Resistant Plate

Flat Rolled Product

- Sheet • Coil • Cold Rolled • Galv
- Electro-Galv • Hot Rolled
- Prepainted • Other

Hollow Sections

- RHS • Galv RHS • Primed RHS
- ERW Tube • Architectural Profile
- DuraGal • CattleRail

Pipe & Pipe Fittings

- Galv Pipe • Black Pipe
- API Line Pipe • Swaged Pipe
- Galv High Strength Pipe
- Spiral Welded Pipe • Primed Pipe
- Malleable & Wrought Fittings
- Butt Weld Fittings
- High Pressure (Socket Weld, Screwed) Fittings
- Flanges

Reinforcing Steel

- Deformed Bar • Plain Bar • Mesh
- Sundry Reinforcing Products
- Tie Wire
- 7 Wire Strand
- Reid Bar and Reid Fittings

Special Steels

- Bright Bar • Tool Steels
- Hollow Bar • Gauge Plate
- Machinery Steel
- High Strength Plate
- Wear Resistant Plate
- Aluminium Tooling Plate
- Silver Steel
- Plastic Mould Steels

Plate Processing

- Guillotining • Press Brake
- Gas Profile Cutting
- Plasma Profile Cutting

Coil Processing

- Slitting • Sheetting
- Blanking

Welding

- Electrodes • Wires
- Consumables • Accessories

Steel Flooring Systems

- Handrail • Expanded Metal
- Flooring (Mesh, Grate, Plank)
- Aluminium • Mild Steel
- Stainless Steel • Treadplate
- Floorplate • Gridmesh

Indent Services

Notes

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