

ELITE PIPE CO

DUCTILE IRON & STEEL PIPES



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Elite Pipe Co ductile iron pipe, fittings and accessories are used for the transmission of potable water and waste water across a number of areas such as drinking water networks, sewerage networks, fire-fighting systems, and HVAC water systems



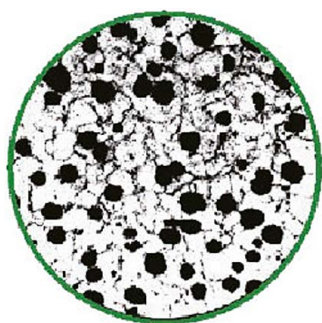
BS EN 545



BS EN 598

Ductile Iron Introduction

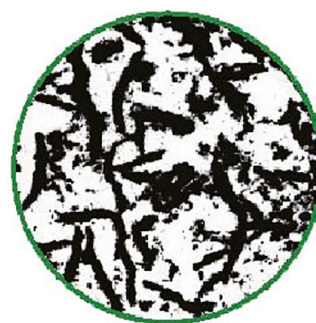
Ductile iron, also called ductile cast iron, spheroidal graphite iron, or nodular cast iron, is a type of cast iron invented in 1943. While most varieties of cast iron are brittle, ductile iron is much more flexible and elastic, due to its nodular graphite inclusions.



Ductile iron pipe



Steel pipe



Grey cast iron pipe

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Ductile Iron Properties

Ductile iron are robust, can withstand mechanical stress and physical abuse, can be laid in unfavorable terrain and operating conditions and work without failure offering a long service life.

Mechanical Properties	Symbol	Unit	Value	
			Pipe	Fittings
Minimum Tensile strength	Rm	MPa	420	420
Minimum yield strength	Rp0.2	MPa	300*	300
Minimum elongation at break	A	(%)	10	5
Minimum hardness		HBW	230	250

* 270MPa are allowed with an elongation at break is greater than 12% for DN40 to DN1000 or greater than 10% for DN greater than DN1000.

Advantage of Ductile Iron Pipes and Fittings

- High tensile strength, good elastic module and excellent ductility, making it suitable for high stress applications and where pressure surge may be experienced.
- High corrosion resistance.
- Excellent hydraulic flow.
- High working pressure compared to other types of pipes.
- Ease of installation.
- Long lifetime.
- Can accommodate ground movement.



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Normative Reference

The following specifications contain provisions which constitute provisions of Elite Pipe Co Ductile Iron Pipes and Fittings.

BSEN 545 –	Ductile iron pipes, fittings, accessories and their joints for water pipelines.
BSEN 598 –	Ductile iron pipes, fittings, accessories and their joints for sewerage applications.
BSEN 681-1 –	Elastomeric seals. Material requirement for pipe joint seals used in water and drainage application.
BSEN 1092-2 –	Circular flanges for pipes, valves, fittings and accessories, PN designated – Part2: Cast iron flanges.
BS 3416 –	Specification for bitumen-based coatings for cold application, suitable for use in contact with potable water.
BS 6920 –	Suitability of non-metallic materials and products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.
ISO 4633 –	Rubber seals joint rings for water supply, drainage and sewerage pipelines (Specification for materials).
ISO 8179-2 –	Ductile iron pipes – external zinc coating part 2 (Zinc rich paint with finishing layer).
ISO 6708 –	Pipe works components – definition and selection of DN (size).
ISO 4179 –	Ductile iron pipes for pressure and non-pressure pipelines – centrifugal cement mortar lining general requirements.
ENV197-1 –	Cement

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Coating

EXTERNAL COATING PROTECTION

The external coating of Elite Pipe Co ductile pipes and fittings comprise a metallic zinc rich paint coating, covered with a finishing layer of:

BSEN545 – Bituminous product in compliance with BS3416 Type II Class C

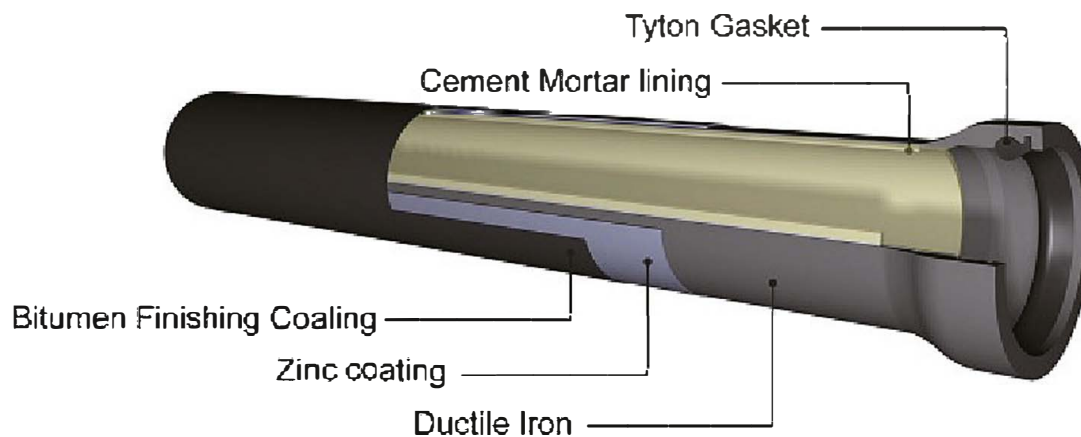
BSEN598 – Epoxy paint

INTERNAL LINING PROTECTION

The internal lining of Elite Pipe Co ductile pipes and fittings comprise a finishing layer of:

BSEN545 – Sulphate Resistant Cement mortar lining (SRC)

BSEN598 – High Alumina Cement mortar lining (HAC)



*Elite Pipe Co may offer special protective coating/lining in compliance with BSEN545/598 according to customer requirements



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Various Joints

TYTON JOINT

Tyton joint is simplicity itself. A single rubber sealing type joint that employs a circular rubber gasket assures a tight, permanent seal. This “push-on” type joint is simple to assemble and fast to install. Eliminates the needs for bolts, nuts and glands. The rubber gaskets fits the inside contour of the bell which seats the gasket. The plain end of pipe is beveled to further ease assembly.

TYTON JOINT pipe is highly recommended wherever there is a need for an easily assembled tight joint for ductile iron pressure pipe. It is particularly well suited for water or other liquid service.



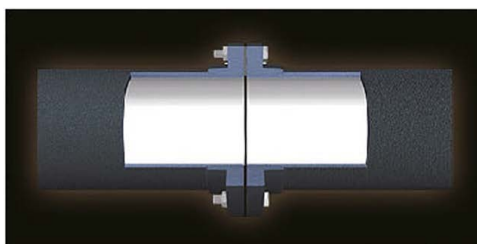
MECHANICAL JOINT

Mechanical joint is uncomplicated and effective, this permanent joint comprises a gland, gasket, bolts and nuts. It requires little mechanical skill to install, and is unusually easy to assemble. No Special tools are required for installation other than a standard ratchet wrench. When properly installed, this joint will maintain a perfect seal indefinitely without further maintenance.



FLANGE JOINT

Over ground and specialized applications require restrained joints where flange joint would be recommended to use. Flange joint would be acted as rigid and self-restrained joint reducing the requirement of thrust blocks. Flanged pipe is ideal for over-ground, exposed installations, and vertical pipelines. It is widely used in industrial piping systems, water treatment plants, and sewerage treatment plants, and for other interior piping. Normally 3 types of flanged pipes would be manufactured: integrally cast-on flanged pipes, screwed-on flanged pipes and welded-on flanged pipes.



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Ductile Iron Pipes with TYTON Joint (T-TYPE)

DETAILS

- (K9 & K12 class, standard effective length: 6m)
- (Suitable for the standard of BSEN545 and BSEN598)

Nominal Size DN	Mean External Diameter	Barrel							
		K9				K12			
(mm)	(mm)	class	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Total Weight Approximation (mm)	class	Nominal Wall Thickness (mm)	Minimum Wall Thickness (mm)	Total Weight Approximation (mm)
80	98	100	6.0	4.7	77	100	7.0	5.6	88
100	118	100	6.0	4.7	95	100	7.2	5.8	110
150	170	64	6.0	4.7	144	100	7.8	6.4	175
200	222	50	6.3	4.8	194	64	8.4	6.9	249
250	274	50	6.8	5.2	255	64	9.0	7.5	331
300	326	40	7.2	5.6	323	64	9.6	8.0	422
350	378	40	7.7	6.0	403	64	10.2	8.6	522
400	429	40	8.1	6.4	482	50	10.8	9.1	630
450	480	40	8.6	6.8	575	50	11.4	9.7	748
500	532	30	9.0	7.2	669	50	12.0	10.2	872
600	635	30	9.9	8.0	882	50	13.2	11.3	1150
700	738	30	10.8	8.8	1123	40	14.4	12.4	1464
800	842	30	11.7	9.6	1394	40	15.6	13.5	1816
900	945	30	12.6	10.4	1691	40	16.8	14.6	2202
1000	1048	30	13.5	11.2	2017	40	18.0	15.7	2625
1100	1152	25	14.4	12.0	2372	40	19.2	16.8	3085
1200	1255	25	15.3	12.8	2758	40	20.4	17.9	3585

- *1: K-Class would be based on BSEN545:2006 version.
- *2: C-Class would be based on BSEN545:2010 version.
- *3: The mass would be indicated for ductile iron layer of pipe only.
- *4: Mechanical joint or flanged joints pipes are available upon request.

MAXIMUM ANGULAR DEFLECTION

DN 80-300: 5°
 DN 350-800: 4°
 DN 900 OR ABOVE: 3°

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Ductile Iron Fittings

In general, ductile iron fittings are of designs similar to those of grey iron fittings and their ends are flanged or preferably, socket.

The greater mechanical strength of ductile iron has made it possible to improve the design of fittings and to reduce their dimensions. This makes easier to lay mains in congested urban areas of large towns, and resets in a reduction in the size of valve chambers, the dimensions of which depend mainly on the space occupied by the fittings.

Flanged socket pieces and straight collars have an internal diameter enlarged sufficiently to allow the adjacent pipes to slide through, facilitating and the longitudinal adjustment of pipeline sections.

The double-socket bends have lengths increasing in proportion to their angle of deviation, their bearing surface on the thrust blocks thus being adjusted to the size of the lateral forces which they exert on these thrust blocks.

The use of reducing flanges and double-flanged tapers has made it possible to simplify the range of flanged-branch tees the use of a combination of these fittings makes it possible to provide users with the greatest number of possibilities with the smallest number of types of castings.

The effect of this arrangement based on market statistics is to reduce stores both at the manufacture's works and at the customer's premises and also to make supply easier.

Double-socket tapers, used mainly for a reduction in diameter, have the shortest practicable lengths.

Double-flanged tapers, generally placed between two successive diameters, have a length in proportion to the variation in diameter, each side being sloped at 5 to the centerline, and chosen so as to reduce the pressure loss when the tapers are used to increase the diameter.

This catalogue is only for the reference, not for the base of any examination.



BSEN 545



BSEN 598

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Ductile Iron Fittings

WALL THICKNESS

The thickness of fittings (e) can be calculated as a function of nominal size DN by using the formula with a constant value for K as below:

The minimum thickness of fittings is limited to 7mm.

K=12 for fittings (except Tee)

$$e=6+0.012DN$$

K=14 for fittings (Tee)

$$e=7+0.014DN$$

Nominal Size DN	Mean External Diameter	Barrel	
		K12	K14
(mm)	(mm)	Nominal Wall Thickness (mm)	Nominal Wall Thickness (mm)
80	98	7.0	8.1
100	118	7.2	8.4
150	170	7.8	9.1
200	222	8.4	9.8
250	274	9.0	10.5
300	326	9.6	11.2
350	378	10.2	11.9
400	429	10.8	12.6
450	480	11.4	13.3
500	532	12.0	14.0
600	635	13.2	15.4
700	738	14.4	16.8
800	842	15.6	18.2
900	945	16.8	19.6
1000	1048	18.0	21.0
1100	1152	19.2	22.4
1200	1255	20.4	23.8

TOLERANCES ON MANUFACTURING WORKING LENGTH

The standard tolerance on the manufacturing working lengths of all fittings with flanges in all nominal size is $\pm 10\text{mm}$.

On request in the order and by agreement between the manufacturer and the purchaser, smaller tolerances can be accepted but not less than:

$\pm 3\text{mm}$ for $DN \leq 600$; and $\pm 4\text{mm}$ for $DN \geq 700$.

WORKS LEAK-TIGHTNESS TEST

The fittings shall be submitted the works to a leak-tightness test, carried out either with air at a pressure of 1 bar or with water at the pressure given in table as following

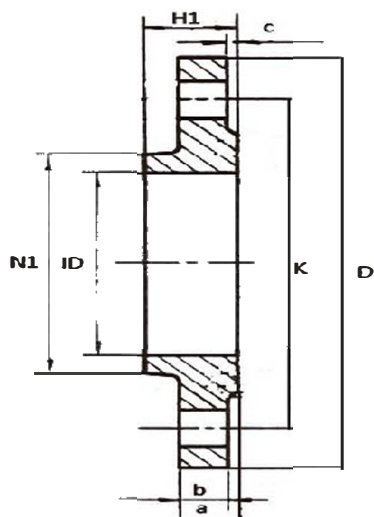
Nominal Diameter DN	HYDROSTATIC TEST PRESSURE (bar)				
	FITTINGS	D.I. PIPE WITH WELDED-ON / SCREW-ON FLANGE			
		PN10	PN16	PN25	PN40
$80 \leq DN \leq 300$	25	16	25	32	40
$350 \leq DN \leq 600$	16				
$700 \leq DN$	10				

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Ductile Iron Fittings

FLANGE



Dimension in mm

Nominal Diameter DN	PN16							BOLT	
	D	a	b	c	N1	H1	K	Size	No.
80	200	19.0	16.0	3	108	30	160	M16	8
100	220	19.0	16.0	3	134	30	180	M16	8
150	285	19.0	16.0	3	179	35	240	M20	8
200	340	20.0	17.0	3	238	38	295	M20	12
250	400	22.0	19.0	3	290	45	355	M24	12
300	455	24.5	20.5	4	342	50	410	M24	12
350	520	26.5	22.5	4	398	54	470	M24	16
400	580	28.0	24.0	4	445	57	525	M27	16
450	640	30.0	26.0	4	500	61	585	M27	20
500	715	31.5	27.5	4	556	64	650	M30	20
600	840	36.0	31.0	5	659	71	770	M33	20

*Dimensional measurement complied with BS EN1092-2.

Dimension in mm

Nominal Diameter DN	PN25							BOLT	
	D	a	b	c	N1	H1	K	Size	No.
80	200	19.0	16.0	3	108	30	160	M16	8
100	235	19.0	16.0	3	134	30	190	M20	8
150	300	20.0	17.0	3	179	35	250	M24	8
200	350	22.0	19.0	3	238	38	310	M24	12
250	425	24.5	21.5	3	290	45	370	M27	12
300	485	27.5	23.5	4	342	50	430	M27	12
350	555	30.0	26.0	4	398	54	490	M30	16
400	620	32.0	28.0	4	445	57	550	M33	16
450	670	34.5	30.5	4	500	61	600	M33	20
500	730	36.5	32.5	4	556	64	660	M33	20
600	845	42.0	37.0	5	659	71	770	M36	20

*Dimensional measurement complied with BS EN1092-2.

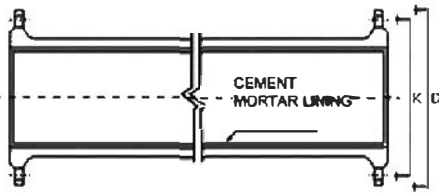
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Ductile Iron Fittings

CAST-ON DOUBLE FLANGE PIPE

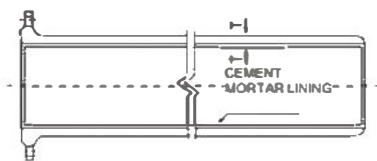
Dimension in mm



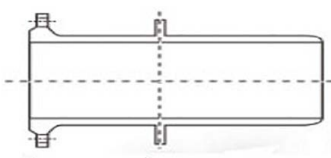
Nominal Diameter DN	PN16		
	D	K	LENGTH FOR PRODUCTION
80	200	160	1000
100	220	180	1000
150	285	240	1000
200	340	295	1500
250	400	355	2000
300	455	410	2000
350	520	470	2000
400	580	525	2000
450	640	585	2000
500	715	650	2000
600	840	770	2000
700	910	840	2000
800	1025	950	2000

FLANGE SPIGOT PIPE/FLANGE SPIGOT PIPE WITH PUDDLE FLANGE

Dimension in mm



FLANGE SPIGOT PIPE



FLANGE SPIGOT PIPE WITH PUDDLE

Nominal Diameter DN	PN16			
	FLANGED SPIGOT PIPE		FLANGED SPIGOT PIPE WITH PUDDLE	
	L1	L1'	L2	L2'
80	350	215	1200	600
100	360	220	1200	600
150	380	225	1200	600
200	400	230	1200	600
250	420	240	1200	600
300	440	250	1200	600
350	460	260	1200	600
400	480	270	1200	600
450	500	280	1200	600
500	520	290	1200	600
600	560	310	1200	600

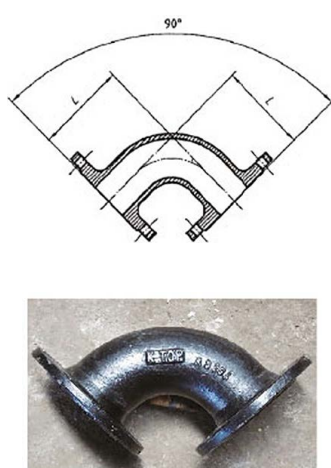
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Ductile Iron Fittings

DOUBLE FLANGE BEND

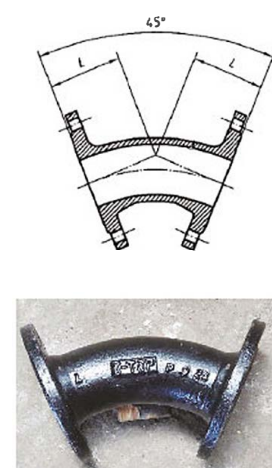
DOUBLE FLANGE BEND 90°



Dimension in mm

Nominal Diameter DN	L
80	165
100	180
150	220
200	260
250	350
300	400
350	450
400	500
450	550
500	600
600	700
800	900

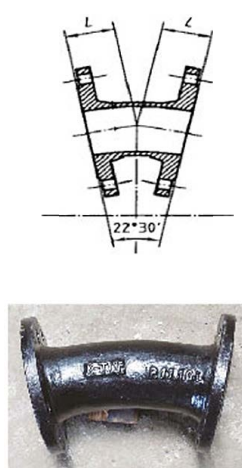
DOUBLE FLANGE BEND 45°



Dimension in mm

Nominal Diameter DN	L
80	130
100	140
150	160
200	180
250	350
300	400
350	298
400	324
450	349
500	375
600	426
700	478
800	529

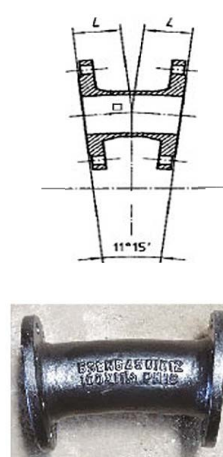
DOUBLE FLANGE BEND 22.5°



Dimension in mm

Nominal Diameter DN	L
80	130
100	140
150	160
200	180
250	350
300	400
350	210
400	324
450	349
500	375
600	426
700	478

DOUBLE FLANGE BEND 11.25°



Dimension in mm

Nominal Diameter DN	L
80	130
100	140
150	160
200	180
250	350
300	400
350	298
400	324
450	349
500	375
600	426
700	478

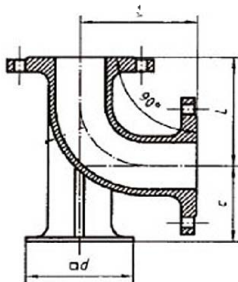
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Ductile Iron Fittings

DOUBLE FLANGE BEND

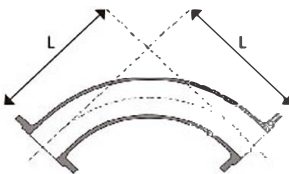
DOUBLE FLANGE DUCTFOOT BEND 90°



Dimension in mm

Nominal Diameter DN	L	c	d
80	165	110	180
100	180	125	200
150	220	160	250
200	260	190	300
250	350	225	350
300	400	255	400
350	450	290	450
400	500	320	500
450	550	355	550
500	600	385	600
600	700	450	700
800	900	580	900

DOUBLE FLANGE LONG RADIUS BEND 90°



Dimension in mm

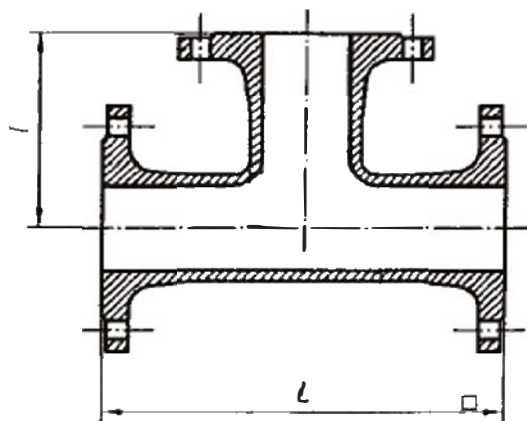
Nominal Diameter DN	L
80	380
100	400
150	450
150	700
200	500
250	550
300	600
350	650
400	700
450	750

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Ductile Iron Fittings

ALL FLANGE TEE



Dimension in mm

Nominal Diameter		L	I
DN	dn		
80	50	320	160
80	65	330	165
80	80	330	165
100	50	360	170
100	65	360	170
100	80	360	175
100	100	360	180
150	50	300	195
150	80	440	205
150	100	440	210
150	150	440	220
200	50	365	215
200	80	520	235
200	100	520	240
200	150	520	250
200	200	520	260
250	80	700	265
250	100	700	275
250	150	700	300
250	200	700	325
250	250	700	350
300	80	800	290
300	100	800	300
300	150	800	325
300	200	800	350

Dimension in mm

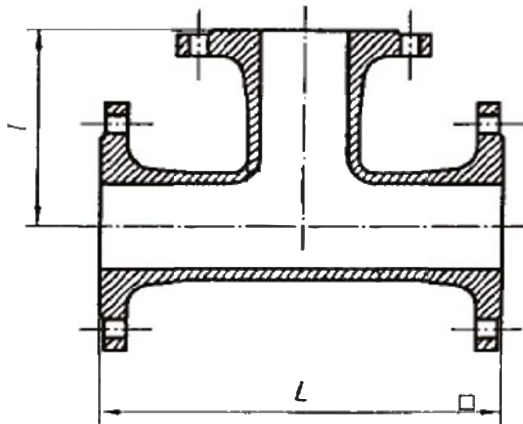
Nominal Diameter		L	I
DN	dn		
300	250	800	375
300	300	800	400
350	80	850	325
350	100	850	325
350	150	850	325
350	200	850	325
350	250	850	325
350	300	850	425
350	350	850	425
400	80	900	350
400	100	900	350
400	150	900	350
400	200	900	350
400	250	900	350
400	300	900	450
400	350	900	450
400	400	900	450
450	80	950	375
450	100	950	375
450	150	950	375
450	200	950	375
450	250	950	375
450	300	950	475
450	350	950	475
450	400	950	475
450	450	950	475

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Ductile Iron Fittings

ALL FLANGE TEE



Dimension in mm

Nominal Diameter		L	I
DN	dn		
500	150	1000	400
500	200	1000	400
500	250	1000	400
500	300	1000	500
500	350	1000	500
500	400	1000	500
500	500	1000	500
600	80	1100	450
600	100	1100	450
600	150	1100	450
600	200	1100	450
600	250	1100	450
600	300	1100	550
600	400	1100	550
600	450	1100	550
600	500	1100	550
600	600	1100	550

Dimension in mm

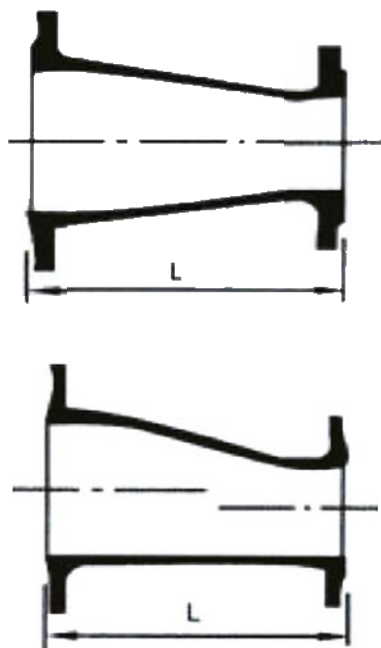
Nominal Diameter		L	I
DN	dn		
700	150	650	525
700	200	650	525
700	350	830	555
700	700	1200	600
800	150	670	585
800	200	690	585
800	250	770	585
800	400	910	615
800	600	1350	645
900	500	1080	680
1000	150	635	705
1000	350	980	725
1000	600	1650	765
1000	800	1650	770
1000	1000	1650	825

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Ductile Iron Fittings

DOUBLE FLANGE TAPER



Dimension in mm

Nominal Diameter		L
DN	dn	
80	50	150
100	50	150
100	65	150
100	80	150
150	80	400
150	100	300
150	125	150
200	80	150
200	100	600
200	150	300
250	100	600
250	150	600
250	200	300
300	100	600
300	150	600
300	200	300
300	250	300
350	200	600
350	250	600
350	300	300

Dimension in mm

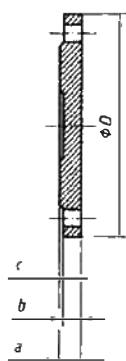
Nominal Diameter		L
DN	dn	
400	250	600
400	300	600
400	350	300
450	300	600
450	350	600
450	400	300
500	250	700
500	300	600
500	350	600
500	400	600
500	450	300
600	300	800
600	350	700
600	400	600
600	450	600
600	500	600
700	600	600
800	700	600
900	800	600
1000	900	600

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Ductile Iron Fittings

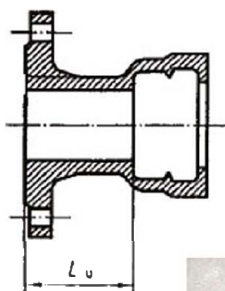
BLANK FLANGE



Dimension in mm

Nominal Diameter DN	PN16			
	D	a	b	c
80	200	19.0	16.0	3
100	220	19.0	16.0	3
150	285	19.0	16.0	3
200	340	20.0	17.0	3
250	400	22.0	19.0	3
300	455	24.5	20.5	4
350 (Dome Shape)	520	26.5	22.5	4
400 (Dome Shape)	580	28.0	24.0	4
450 (Dome Shape)	640	30.0	26.0	4
500 (Dome Shape)	715	31.5	27.5	4
600 (Dome Shape)	840	36.0	31.0	5
700 (Dome Shape)	910	39.5	34.5	5
800 (Dome Shape)	1025	43	38	5
900 (Dome Shape)	1125	46.5	41.5	5
1000 (Dome Shape)	1255	50	45	5

FLANGE WITH TYTON



Dimension in mm

Nominal Diameter DN	PN16
	Lu
80	130
100	130
150	135
200	140
250	145
300	150
350	155
400	160
450	165
500	170
600	180
700	190

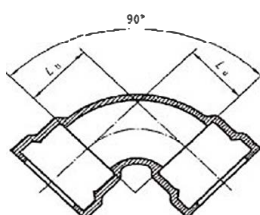
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Ductile Iron Fittings

DOUBLE SOCKET BEND

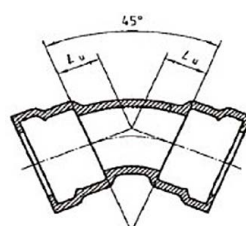
DOUBLE SOCKET BEND 90°



Dimension in mm

Nominal Diameter DN	Lu
80	85
100	120
150	170
200	220
250	270
300	320
350	370
400	408
450	470
500	520
600	620
700	720

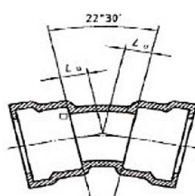
DOUBLE SOCKET BEND 45°



Dimension in mm

Nominal Diameter DN	Lu
80	55
100	65
150	85
200	110
250	130
300	155
350	175
400	188
450	220
500	240
600	285
700	330

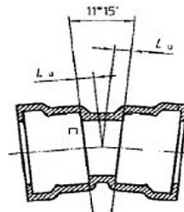
DOUBLE SOCKET BEND 22.5°



Dimension in mm

Nominal Diameter DN	Lu
80	40
100	45
150	55
200	65
250	75
300	90
350	100
400	98
450	120
500	135
600	155
700	175

DOUBLE SOCKET BEND 11.25°



Dimension in mm

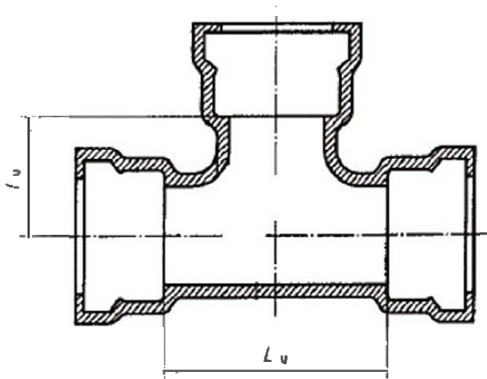
Nominal Diameter DN	Lu
80	30
100	35
150	40
200	45
250	50
300	60
350	65
400	58
450	75
500	85
600	95
700	95

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Ductile Iron Fittings

ALL SOCKET TEE



Dimension in mm

Nominal Diameter		Lu	lu
DN	dn		
80	80	170	85
100	80	170	95
100	100	190	95
150	80	170	120
150	100	195	120
150	150	270	150
200	80	175	145
200	100	200	145
200	150	255	150
200	200	330	180
250	80	180	170
250	100	220	205
250	150	260	175
250	200	335	210
250	250	390	210
300	80	180	195
300	100	220	235
300	150	260	200
300	200	335	235
300	250	375	210
300	300	450	240

Dimension in mm

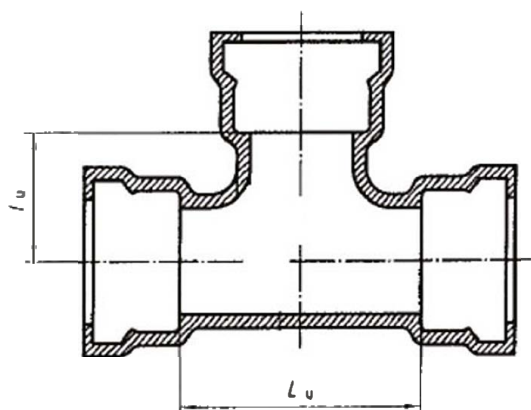
Nominal Diameter		Lu	lu
DN	dn		
350	80	185	220
350	100	185	220
350	150	340	265
350	200	340	265
350	250	380	240
350	300	495	245
350	350	515	270
400	80	161	245
400	100	201	290
400	150	246	250
400	200	316	260
400	250	361	265
400	300	416	270
400	350	476	275
400	400	551	288
450	80	230	315
450	100	230	315
450	150	345	320
450	200	345	280
450	250	385	290
450	300	440	295
450	350	505	300
450	400	560	305
450	450	620	310

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Ductile Iron Fittings

ALL SOCKET TEE



Dimension in mm

Nominal Diameter		Lu	lu
DN	dn		
500	80	230	345
500	100	230	345
500	150	275	300
500	250	390	315
500	350	540	315
500	500	680	340
600	80	355	400
600	100	355	400
600	150	355	400
600	200	340	360
600	250	455	365
600	300	455	370
600	350	510	370
600	400	570	385
600	450	820	400
600	600	810	400

Dimension in mm

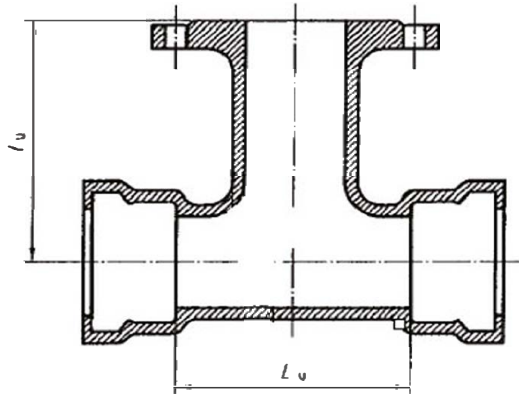
Nominal Diameter		Lu	lu
DN	dn		
700	80	360	410
700	100	360	410
700	450	640	445
700	600	810	445
700	700	900	450

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Ductile Iron Fittings

DOUBLE SOCKET TEE WITH FLANGE BRANCH



Dimension in mm

Nominal Diameter		L	I
DN	dn		
80	80	185	185
100	80	185	195
100	100	210	200
150	50	190	220
150	80	170	205
150	100	210	230
150	150	270	245
200	80	175	235
200	100	215	255
200	150	270	270
200	200	330	275
250	100	200	270
250	150	260	280
250	200	315	290
250	250	390	320
300	80	180	295
300	100	220	310
300	150	260	310
300	200	320	320
300	300	450	360
350	80	185	325
350	100	185	330
350	150	270	340
350	200	340	350
350	350	495	380

Dimension in mm

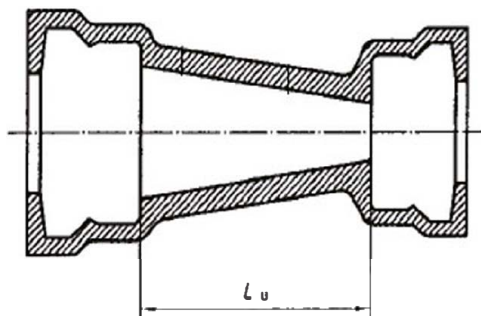
Nominal Diameter		L	I
DN	dn		
400	80	161	355
400	100	201	360
400	150	246	370
400	200	316	380
400	250	361	390
400	300	416	400
400	400	551	445
450	80	161	355
450	100	230	395
450	150	270	400
450	200	345	410
450	250	385	420
450	300	445	430
450	400	560	450
450	450	635	490
500	150	275	430
500	250	390	450
500	300	580	470
500	500	680	500
600	80	355	470
600	100	355	475
600	150	355	490
600	200	340	500
600	250	455	510
600	300	455	520
600	450	820	570
600	600	800	580
700	150	360	505

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Ductile Iron Fittings

DOUBLE SOCKET TAPER (CONCENTRIC)



Dimension in mm

Nominal Diameter		Lu
DN	dn	
100	80	90
150	80	190
150	100	150
200	80	250
200	100	250
200	150	150
250	80	250
250	100	250
250	150	250
250	200	150
300	100	350
300	150	350
300	200	250
300	250	150
350	80	360
350	100	360
350	150	360
350	200	360
350	250	260
350	300	160

Dimension in mm

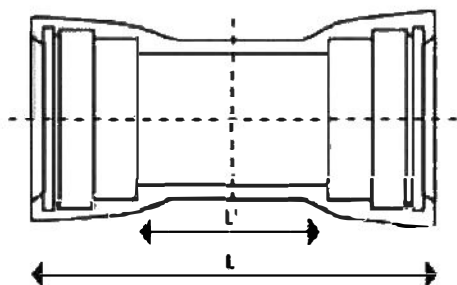
Nominal Diameter		Lu
DN	dn	
400	150	448
400	200	460
400	250	360
400	300	248
400	350	148
450	150	460
450	200	460
450	250	460
450	300	360
450	350	260
450	400	148
500	250	500
500	350	360
500	400	260
500	450	160
600	250	660
600	300	660
600	350	560
600	400	460
600	450	360
700	500	480
700	600	280

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Ductile Iron Fittings

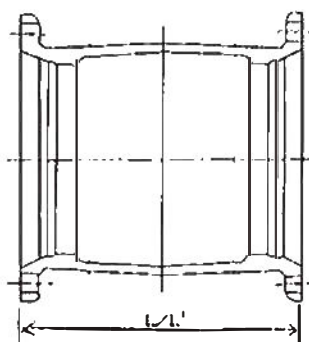
COLLAR



Dimension in mm

Nominal Diameter DN	PN16	
	Long Joint Collar	Short Joint Collar
	L	L'
80	322	170
100	338	160
150	345	165
200	350	170
250	385	175
300	400	180
350	405	185
400	409	161

MECHANICAL JOINT COLLAR



Dimension in mm

Nominal Diameter DN	PN16	
	Long Joint Collar	Short Joint Collar
	L	L'
80	325	230
100	325	230
150	330	240
200	340	255
250	355	265
300	360	275
350	380	
400	400	300
450	410	320
500	425	
600	450	350
700	470	
800	480	

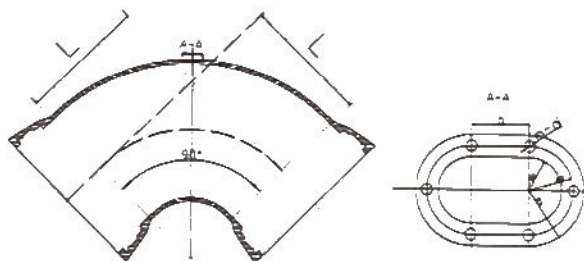
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Ductile Iron Fittings

FITTINGS WITH ACCESS DOOR (FOR BSEN598 ONLY)

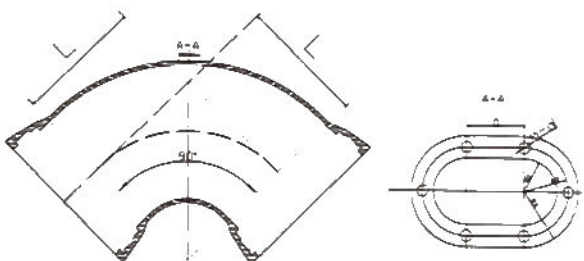
DOUBLE SOCKET BEND 90° WITH ACCESS DOOR



Dimension in mm

Nominal Diameter DN	L
80	85
100	120
150	170
200	220
250	270
300	320
350	370
400	408
450	470
500	520
600	620

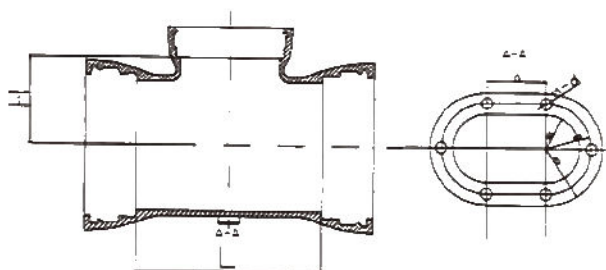
DOUBLE SOCKET BEND 45° WITH ACCESS DOOR



Dimension in mm

Nominal Diameter DN	L
80	55
100	65
150	85
200	110
250	130
300	155
350	175
400	188
450	220
500	240
600	285

ALL SOCKET TEE 90° WITH ACCESS DOOR



Dimension in mm

Nominal Diameter DN	L	H
150	270	150
200	330	180
250	390	210
300	450	240
350	515	270
400	551	288
450	620	310
500	680	340
600	810	400

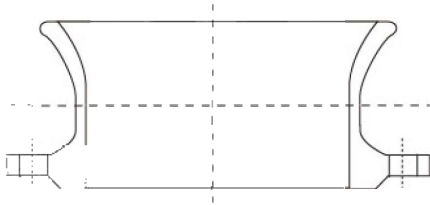
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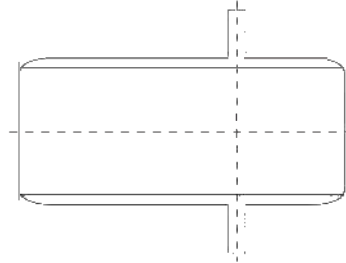
Ductile Iron Fittings

OTHER FITTINGS

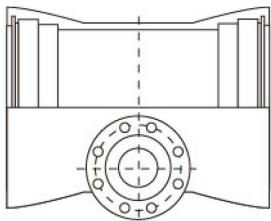
BELLMOUTH



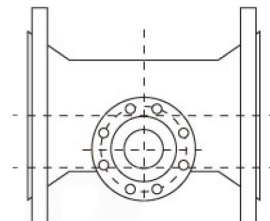
DOUBLE SPIGOT WITH PUDDLE FLANGE



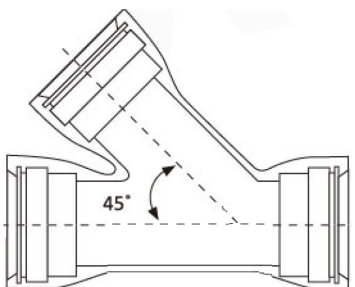
LEVEL INVERT TEE WITH FLANGE BRANCH



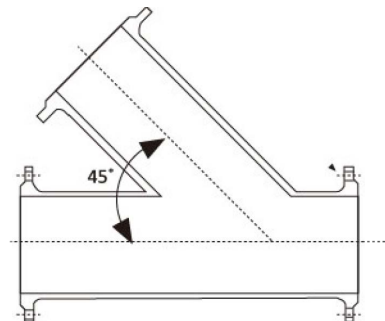
ALL FLANGE LEVEL INVERT TEE



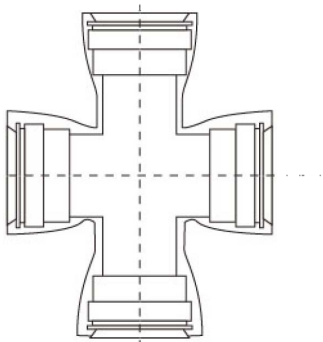
ALL SOCKET TEE 45°



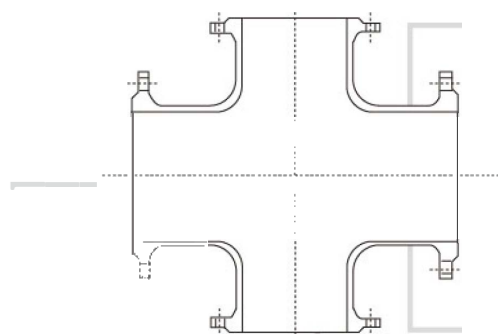
ALL FLANGE TEE 45°



CROSS TEE (SOCKET)



CROSS TEE (FLANGE)



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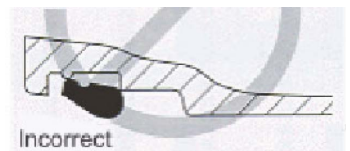
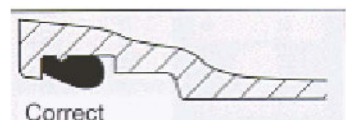
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Installation Instruction

TYTON JOINT PIPE

ASSEMBLY INSTRUCTION (1)

1. All foreign matter in the socket must be removed, i.e., mud, sand, cinders, gravel, pebbles, trash, frozen material, etc. The gasket seat should be thoroughly inspected to be certain it is clean. Foreign matter in the gasket seat may cause a leak. Do not lubricate the inside of the bell.
2. The gasket must be wiped clean with a clean cloth, flexed, and then placed into the socket with the rounded bulb end entering first. Looping the gasket in the initial insertion will facilitate seating the gasket heel evenly around the retainer seat. Smaller sizes require only one loop. With larger sizes it will be helpful to loop the gasket at the 12 o'clock and 6 o'clock positions. When installing TYTON JOINT pipe in subfreezing weather, the gaskets, prior to their use, must be kept at a temperature of at least 40°F by suitable means, such as storing in a heated area or keeping immersed in a tank of warm water. If the gaskets are kept in warm water, they should be dried before placing in the pipe socket.
3. The seating of the gasket may be facilitated by flexing the gasket on one or two points depending on size and then pressing the bulge or bulges out.
4. The inner edge of the retaining heel must not protrude from the retaining bead of the socket.
5. A thin film of pipe joint lubricant should be applied to the inside surface of gasket which will come in contact with plain end of the pipe.



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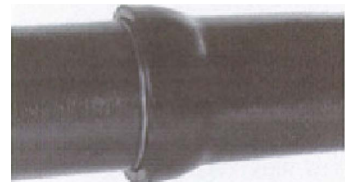
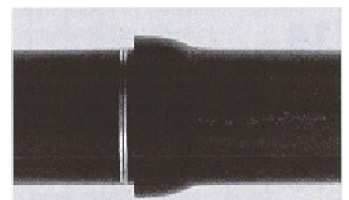
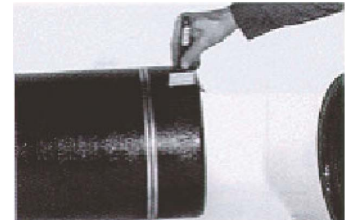
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Installation Instruction

TYTON JOINT PIPE

ASSEMBLY INSTRUCTION (2)

6. Be sure that the plain end is beveled; square or sharp edges may damage or dislodge the gasket and cause a leak. The plain end of the pipe must be cleaned of all foreign matter on the outside from the end to the stripes. Frozen materials may cling to the pipe in cold weather and must be removed. In all cases, it is desirable to apply a thin film of lubricant to the outside of the plain end for about 3" back from the end. Do not allow the plain end to touch the ground or trench side after lubricating since foreign matter may adhere to the plain end and cause a leak. Lubricant other than that furnished with the pipe should not be used.
7. The plain end of the pipe should be in reasonably straight alignment and carefully entered into the socket until it just makes contact with the gasket. This is the starting position for the final assembly of the joint. Note the two painted stripes near plain end.
8. Joint assembly should then be completed by forcing the plain end of the entering pipe past the gasket (which is thereby compressed) until the plain end makes contact with the bottom of the socket. Note that the first painted stripe will have disappeared into the socket and the front edge of the second stripe will be approximately flush with the bell face. If assembly is not accomplished with the application of reasonable force by the methods indicated, the plain end of the pipe should be removed to check for the proper positioning of the gasket, adequate lubrication, and removal of foreign matter in the joint.
9. For joint assemblies 8" and smaller, socketing of the plain end may be accomplished in some cases by pushing against the face of the bell of the entering pipe with a crowbar or spade. Large sizes require a more powerful means.



FIELD-CUT

The plain end of TYTON JOINT pipe is furnished beveled to ease its "sliding fit" with the gasket when the joint is assembled. When necessary to field-cut pipe, the cut end may be easily conditioned to readily accept the next joint.

Simply taper the outside cut-end of TYTON JOINT pipe at least 1/4" back, at an angle approximately 30 degrees with the center line of pipe. This can be done with a coarse file or portable grinder. The operation removes sharp or rough edges which could injure the gasket, and assures proper assembly.



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Installation Instruction

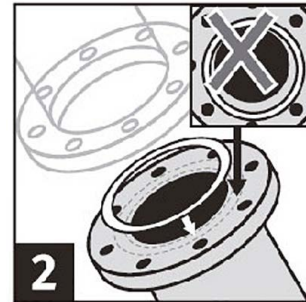
FLANGE JOINT PIPE AND FITTINGS

For quick reference, the highlights of the best installation practices are highlighted below:

1. 1. Make sure that the sealing surfaces are clean, dry and free of grease.
 - Check the quality of flange and gasket, ensure to remove any dust and grime.
 - Line up the flange pipes.
 - Leave a space between two flanges for placing gasket.



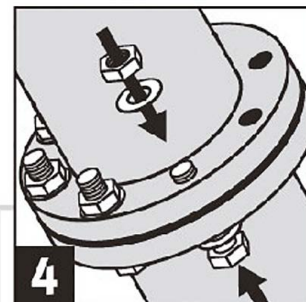
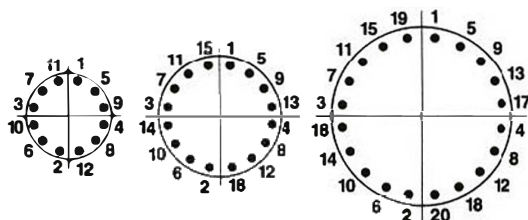
2. Position the gasket so that it is centered on the flange.
 - Slide the gasket into the gap between flanges, place all bolts, and fit its position with a rubber bend.
 - The gasket should be aligned and centered between the raised face.



3. Lubricate the cable ties. Be sure to lubricate bolts, nuts and washers of all bearing surfaces.



4. Assemble bolts, washers and nuts on the flange. Tightening bolts follow one direction and as below position. Preferably using a torque wrench for required torque.



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STEEL PIPES

Chemical analysis & mechanical tests · Dimensions & weights to ANSI B36.10

ELITE PIPE CO

CHEMICAL ANALYSIS & MECHANICAL TEST FOR CARBON STEEL PIPES

Spec.	ASTM Grade	C% Max	Mn% Max	P% Max	S% Max	Si%	Cr%	Mo%	Ni%	Cu%	V%	Nb%	N%	Al%	Tensile strength Mpa	Yield point Mpa	Elong. 2%	Impact test (KCV)	Hardness (HB)
A106	B	0.300	0.29÷1.06	0.035	0.035	0.10 min	0.40 max	0.150 max	0.40 max	0.40 max	0.080 max	///	///	///	415	240	30	///	///
A106	C	0.350	0.29÷1.06	0.035	0.035	0.10 min	0.40 max	0.150 max	0.40 max	0.40 max	0.080 max	///	///	///	485	275	30	///	///
A333	6	0.300	0.29÷1.06	0.025	0.025	0.10 min	///	///	///	///	///	///	///	///	415	240	30	-45°C 18/14J	///
A333	3	0.190	0.31÷0.64	0.025	0.025	0.18÷0.37	///	///	3.18÷3.82	///	///	///	///	///	450	240	30	-101°C 18/14J	///
API 5L SEAMLESS	B	0.270	1.15 max	0.040	0.050	///	///	///	///	///	///	///	///	///	413	241	12.5	///	///
API 5L WELDED	B	0.260	1.15 max	0.040	0.050	///	///	///	///	///	///	///	///	///	413	241	12.5	///	///
API 5L SEAMLESS	X42	0.29	1.250 max	0.040	0.050	///	///	///	///	///	///	///	///	///	413	289	19	///	///
API 5L SEAMLESS	X46	0.31	1.350 max	0.040	0.050	///	///	///	///	///	///	///	///	///	434	317	18	///	///
API 5L SEAMLESS	X52	0.31	1.350 max	0.040	0.050	///	///	///	///	///	///	///	///	///	496	358	17.5	///	///
API 5L SEAMLESS	X60	0.26	1.350 max	0.040	0.050	///	///	///	///	///	///	///	///	///	517	413	15.5	///	///
API 5L WELDED	X42	0.280	1.250 max	0.040	0.050	///	///	///	///	///	///	///	///	///	413	289	19	///	///
API 5L WELDED	X46	0.300	1.350 max	0.040	0.050	///	///	///	///	///	///	///	///	///	434	317	18	///	///
API 5L WELDED	X52	0.300	1.350 max	0.040	0.050	///	///	///	///	///	///	///	///	///	496	358	17.5	///	///
API 5L WELDED	X60	0.260	1.350 max	0.040	0.050	///	///	///	///	///	///	///	///	///	517	413	15.5	///	///
API 5L WELDED	X65	0.260	1.400 max	0.040	0.050	///	///	///	///	///	///	///	///	///	551	448	15	///	///

for additional requirements please check the mentioned ASTM/ASME specifications

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Steel Pipes

CHEMICAL ANALYSIS & MECHANICAL TEST FOR ALLOY STEEL PIPES

Spec.	ASTM Grade	C% Max	Mn%	P% Max	S% Max	S%	Cr%	Mo%	Ni%	W%	V%	Nb%	N%	Al%	B%	Tensile strength Mpa	Yield point Mpa	Elong- 2%	Impact test (KCV)	Hardness (HB)
A335	P1	0.10÷ 0.20	0.30 - 0.80	0.025	0.025	0.10 - 0.50	///	0.44 - 0.65	///	///	///	///	///	///	///	380 - 550	205	30 (L) 20 (T)	///	<197
A335	P12	0.05 - 0.15	0.30 - 0.61	0.025	0.025	0.50 max	0.80 - 1.25	0.44 - 0.65	///	///	///	///	///	///	///	415 - 585	220	30 (L) 20 (T)	///	<197
A335	P11	0.05 - 0.15	0.30 - 0.60	0.025	0.025	0.50 - 1.00	1.00 - 1.50	0.44 - 0.65	///	///	///	///	///	///	///	415 - 585	205	30 (L) 20 (T)	///	<197
A335	P22	0.05 - 0.15	0.30 - 0.60	0.025	0.025	0.50 max	1.90 - 2.60	0.87 - 1.13	///	///	///	///	///	///	///	415 - 585	205	30 (L) 20 (T)	///	<197
A335	P5	0.15 max	0.30 - 0.60	0.025	0.025	0.50 max	4.00 - 6.00	0.45 - 0.65	///	///	///	///	///	///	///	415 - 585	205	30 (L) 20 (T)	///	<217
A335	P9	0.15 max	0.30 - 0.60	0.025	0.025	0.25 - 1.00	8.00 - 10.00	0.90 - 1.10	///	///	///	///	///	///	///	415 - 585	205	30 (L) 20 (T)	///	<217
A335	P91	0.08 - 0.12	0.30 - 0.60	0.02	0.01	0.20 - 0.50	8.00 - 9.50	0.30 - 0.60	0.40 max	1.50 - 2.00	0.15 - 0.25	0.04 - 0.09	0.03 - 0.07	0.04 - max	0.001 - 0.006	585 - 760	415	20 (L)	///	<248

for additional requirements please check the mentioned ASTM/ASME specifications

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CHEMICAL ANALYSIS & MECHANICAL TEST FOR STAINLESS STEEL PIPES

Spec.	ASTM Grade	C% Max	Mn %	P% Max	S% Max	Si%	Cr %	Mo%	Ni%	Cu%	V%	Nb%	N2%	TT%	Nb + Ta %	Tensile strenght Mpa	Yield point Mpa	Elongation 2%	Hardness (HB)
A312	TP304	0.08	2.00	0.045	0.030	1.00	18.0 - 20.0		8.0 - 11.0							515	205	35	NOT REQUIRED
A312	TP304H	0.04 - 0.10	2.00	0.045	0.030	1.00	18.0 - 20.0		8.0 - 11.0							515	205	35	NOT REQUIRED
A312	TP304L	0.035	2.00	0.045	0.030	1.00	18.0 - 20.0		8.0 - 13.0							485	170	35	NOT REQUIRED
A312	TP316	0.080	2.00	0.045	0.030	1.00	16.0 - 18.0	2.00 - 3.00	11.0 - 14.0							515	205	35	NOT REQUIRED
A312	TP316H	0.04 - 0.10	2.00	0.045	0.030	1.00	16.0 - 18.0	2.00 - 3.00	11.0 - 14.0							515	205	35	NOT REQUIRED
A312	TP316L	0.035	2.00	0.045	0.030	1.00	16.0 - 18.0	2.00 - 3.00	10.0 - 14.0							485	170	35	NOT REQUIRED
A312	TP321	0.080	2.00	0.045	0.030	1.00	17.0 - 20.0		9.0 - 13.0					5 x C ÷ < 0.7		515	205	35	NOT REQUIRED
A312	TP321H	0.04 - 0.10	2.00	0.045	0.030	1.00	17.0 - 20.0		9.0 - 13.0					4 x C ÷ < 0.6		515	205	35	NOT REQUIRED
A312	TP347	0.080	2.00	0.045	0.030	1.00	17.0 - 20.0		9.0 - 13.0						10 x C ÷ < 1.00	515	205	35	NOT REQUIRED
A312	TP347H	0.04 - 0.10	2.00	0.045	0.030	1.00	17.0 - 20.0		9.0 - 13.0						8 x C ÷ < 1.00	515	205	35	NOT REQUIRED
A312	UNS S31254	0.020	1.00	0.030	0.010	0.80	19.5 - 20.5	6.0 - 6.5	17.5 - 18.5	0.50 - 1.00			0.18 - 0.22			650	300	35	NOT REQUIRED
A790	UNS 31803	0.030	2.00	0.030	0.020	1.00	21.0 - 23.0	2.5 - 3.5	4.5 - 6.5				0.08 - 0.20			620	450	25	<290

for additional requirements please check the mentioned ASTM/ASME specifications

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
1/8	0.405	10.3	0.068	1.73	0.24	0.37	X			STD	40
	0.405	10.3	0.095	2.41	0.31	0.47	X			XS	80
1/4	0.540	13.7	0.088	2.24	0.42	0.63	X			STD	40
	0.540	13.7	0.119	3.02	0.54	0.80	X			XS	80
3/8	0.675	17.1	0.091	2.31	0.57	0.84	X			STD	40
	0.675	17.1	0.126	3.20	0.74	1.10	X			XS	80
1/2	0.840	21.3	0.109	2.77	0.85	1.27	X			STD	40
	0.840	21.3	0.147	3.73	1.09	1.62	X			XS	80
	0.840	21.3	0.188	4.78	1.31	1.95					160
	0.840	21.3	0.294	7.47	1.71	2.55	X			XXS	
3/4	1.050	26.7	0.113	2.87	1.13	1.69	X			STD	40
	1.050	26.7	0.154	3.91	1.47	2.20	X			XS	80
	1.050	26.7	0.219	5.56	1.94	2.90					160
	1.050	26.7	0.308	7.82	2.44	3.64	X			XXS	
1	1.315	33.4	0.133	3.38	1.68	2.50	X			STD	40
	1.315	33.4	0.179	4.55	2.17	3.24	X			XS	80
	1.315	33.4	0.250	6.35	2.84	4.24					160
	1.315	33.4	0.358	9.09	3.66	5.45	X			XXS	
1 1/4	1.660	42.2	0.140	3.56	2.27	3.39	X			STD	40
	1.660	42.2	0.191	4.85	3.00	4.47	X			XS	80
	1.660	42.2	0.250	6.35	3.76	5.61					160
	1.660	42.2	0.382	9.70	5.21	7.77	X			XXS	
1 1/2	1.900	48.3	0.145	3.68	2.72	4.05	X			STD	40
	1.900	48.3	0.200	5.08	3.63	5.41	X			XS	80
	1.900	48.3	0.281	7.14	4.86	7.25					160
	1.900	48.3	0.400	10.15	6.41	9.56	X			XXS	
2	2.375	60.3	0.083	2.11	2.03	3.03	X	X			
	2.375	60.3	0.109	2.77	2.64	3.93	X	X			
	2.375	60.3	0.125	3.18	3.00	4.48	X	X			
	2.375	60.3	0.141	3.58	3.36	5.01	X	X			
	2.375	60.3	0.154	3.91	3.65	5.44	X	X		STD	40
	2.375	60.3	0.172	4.37	4.05	6.03	X	X			
	2.375	60.3	0.188	4.78	4.39	6.54	X	X			
	2.375	60.3	0.218	5.54	5.02	7.48	X	X		XS	80
	2.375	60.3	0.250	6.35	5.67	8.45	X	X			
	2.375	60.3	0.281	7.14	6.28	9.36	X	X			
	2.375	60.3	0.344	8.74	7.46	11.11					160
	2.375	60.3	0.436	11.07	9.03	13.44	X	X		XXS	

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
2 1/2	2.875	73.0	0.083	2.11	2.47	3.69	X	X			
	2.875	73.0	0.109	2.77	3.22	4.80	X	X			
	2.875	73.0	0.125	3.18	3.67	5.48	X	X			
	2.875	73.0	0.141	3.58	4.12	6.13	X	X			
	2.875	73.0	0.156	3.96	4.53	6.74	X	X			
	2.875	73.0	0.172	4.37	4.97	7.40	X	X			
	2.875	73.0	0.188	4.78	5.40	8.04	X	X			
	2.875	73.0	0.203	5.16	5.79	8.63	X	X		STD	40
	2.875	73.0	0.216	5.49	6.13	9.14	X	X			
	2.875	73.0	0.250	6.35	7.01	10.44	X	X			
	2.875	73.0	0.276	7.01	7.66	11.41	X	X		XS	80
	2.875	73.0	0.375	9.53	10.01	14.92					160
	2.875	73.0	0.552	14.02	13.69	20.39	X	X		XXS	
	2.875	73.0	0.552	14.02	13.69	20.39	X	X		XXS	
3	3.500	88.9	0.083	2.11	3.03	4.52	X	X			
	3.500	88.9	0.109	2.77	3.95	5.88	X	X			
	3.500	88.9	0.125	3.18	4.51	6.72	X	X			
	3.500	88.9	0.141	3.58	5.06	7.53	X	X			
	3.500	88.9	0.156	3.96	5.57	8.29	X	X			
	3.500	88.9	0.172	4.37	6.11	9.11	X	X			
	3.500	88.9	0.188	4.78	6.65	9.92	X	X			
	3.500	88.9	0.216	5.49	7.58	11.29	X	X		STD	40
	3.500	88.9	0.250	6.35	8.68	12.93	X	X			
	3.500	88.9	0.281	7.14	9.66	14.40	X	X			
	3.500	88.9	0.300	7.62	10.25	15.27	X	X		XS	80
	3.500	88.9	0.438	11.13	14.32	21.35					160
	3.500	88.9	0.600	15.24	18.58	27.68	X	X		XXS	
	3.500	88.9	0.600	15.24	18.58	27.68	X	X		XXS	
3 1/2	4.000	101.6	0.083	2.11	3.47	5.18	X	X			
	4.000	101.6	0.109	2.77	4.53	6.75	X	X			
	4.000	101.6	0.125	3.18	5.17	7.72	X	X			
	4.000	101.6	0.141	3.58	5.81	8.65	X	X			
	4.000	101.6	0.156	3.96	6.40	9.53	X	X			
	4.000	101.6	0.172	4.37	7.03	10.48	X	X			
	4.000	101.6	0.188	4.78	7.65	11.41	X	X			
	4.000	101.6	0.226	5.74	9.11	13.57	X	X		STD	40
	4.000	101.6	0.250	6.35	10.01	14.92	X	X			
	4.000	101.6	0.281	7.14	11.16	16.63	X	X			
	4.000	101.6	0.318	8.08	12.50	18.63	X	X		XS	80

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
4	4.500	114.3	0.083	2.11	3.92	5.84	X	X	X		
	4.500	114.3	0.109	2.77	5.11	7.62	X		X		
	4.500	114.3	0.125	3.18	5.84	8.71	X	X	X		
	4.500	114.3	0.141	3.58	6.56	9.77	X	X	X		
	4.500	114.3	0.156	3.96	7.24	10.78	X	X	X		
	4.500	114.3	0.172	4.37	7.95	11.85	X	X	X		
	4.500	114.3	0.188	4.78	8.66	12.91	X	X	X		
	4.500	114.3	0.203	5.16	9.32	13.89	X	X	X		
	4.500	114.3	0.219	5.56	10.01	14.91	X	X	X		
	4.500	114.3	0.237	6.02	10.79	16.07	X	X	X	STD	40
	4.500	114.3	0.250	6.35	11.35	16.90	X	X	X		
	4.500	114.3	0.281	7.14	12.66	18.87	X	X	X		
	4.500	114.3	0.312	7.92	13.96	20.78	X	X	X		
	4.500	114.3	0.337	8.56	14.98	22.32	X	X	X	XS	80
	4.500	114.3	0.438	11.13	19.00	28.32	X	X	X		120
	4.500	114.3	0.531	13.49	22.51	33.54	X	X	X		160
	4.500	114.3	0.674	17.12	27.54	41.03	X	X	X	XXS	
5	5.563	141.3	0.083	2.11	4.86	7.24	X		X		
	5.563	141.3	0.125	3.18	7.26	10.83	X		X		
	5.563	141.3	0.156	3.96	9.01	13.41	X		X		
	5.563	141.3	0.188	4.78	10.79	16.09	X		X		
	5.563	141.3	0.219	5.56	12.50	18.61	X		X		
	5.563	141.3	0.258	6.55	14.62	21.77	X		X	STD	40
	5.563	141.3	0.281	7.14	15.85	23.62	X		X		
	5.563	141.3	0.312	7.92	17.50	26.05	X		X		
	5.563	141.3	0.344	8.74	19.17	28.57	X		X		
	5.563	141.3	0.375	9.53	20.78	30.97	X			XS	80
	5.563	141.3	0.500	12.70	27.04	40.28	X		X		120
	5.563	141.3	0.625	15.88	32.96	49.11	X		X		160
	5.563	141.3	0.750	19.05	38.55	57.43	X			XXS	
6	6.625	168.3	0.083	2.11	5.80	8.65	X	X	X		
	6.625	168.3	0.109	2.77	7.59	11.31	X	X	X		
	6.625	168.3	0.125	3.18	8.68	12.95	X	X	X		
	6.625	168.3	0.141	3.58	9.76	14.54	X	X	X		
	6.625	168.3	0.156	3.96	10.78	16.05	X	X	X		
	6.625	168.3	0.172	4.37	11.85	17.67	X	X	X		
	6.625	168.3	0.188	4.78	12.92	19.27	X	X	X		
	6.625	168.3	0.203	5.16	13.92	20.76	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
6	6.625	168.3	0.219	5.56	14.98	22.31	X	X	X		
	6.625	168.3	0.250	6.35	17.02	25.36	X	X	X		
	6.625	168.3	0.280	7.11	18.97	28.26	X	X	X	STD	40
	6.625	168.3	0.312	7.92	21.04	31.32	X	X	X		
	6.625	168.3	0.344	8.74	23.08	34.39	X	X	X		
	6.625	168.3	0.375	9.53	25.03	37.31	X	X	X		
	6.625	168.3	0.432	10.97	28.57	42.56	X	X	X	XS	80
	6.625	168.3	0.500	12.70	32.71	48.73	X	X	X		
	6.625	168.3	0.562	14.27	36.39	54.20	X	X	X		120
	6.625	168.3	0.625	15.88	40.05	59.69	X	X	X		
	6.625	168.3	0.719	18.26	45.35	67.56	X	X	X		160
	6.625	168.3	0.864	21.95	53.16	79.22	X			XXS	
8	8.625	219.1	0.125	3.18	11.35	16.93	X	X	X		
	8.625	219.1	0.156	3.96	14.11	21.01	X	X	X		
	8.625	219.1	0.188	4.78	16.94	25.26	X	X	X		
	8.625	219.1	0.203	5.16	18.26	27.22		X	X		
	8.625	219.1	0.219	5.56	19.66	29.28	X	X	X		
	8.625	219.1	0.250	6.35	22.36	33.31	X	X	X		20
	8.625	219.1	0.277	7.04	24.70	36.81	X	X	X		30
	8.625	219.1	0.312	7.92	27.70	41.24	X	X	X		
	8.625	219.1	0.322	8.18	28.55	42.55	X	X	X	STD	40
	8.625	219.1	0.344	8.74	30.42	45.34	X	X	X		
	8.625	219.1	0.375	9.53	33.04	49.25	X	X	X		
	8.625	219.1	0.406	10.31	35.64	53.08					60
	8.625	219.1	0.438	11.13	38.30	57.08	X	X	X		
	8.625	219.1	0.500	12.70	43.39	64.64	X	X	X	XS	80
	8.625	219.1	0.562	14.27	48.40	72.08	X	X	X		
	8.625	219.1	0.594	15.09	50.95	75.92					100
	8.625	219.1	0.625	15.88	53.40	79.58	X	X	X		
	8.625	219.1	0.719	18.26	60.71	90.44	X	X	X		120
	8.625	219.1	0.812	20.62	67.76	100.92					140
	8.625	219.1	0.875	22.23	72.42	107.92	X			XXS	
	8.625	219.1	0.906	23.01	74.69	111.27					160
10	10.750	273.1	0.156	3.96	17.65	26.28	X	X	X		
	10.750	273.1	0.188	4.78	21.21	31.63	X	X	X		
	10.750	273.1	0.203	5.16	22.87	34.09		X	X		
	10.750	273.1	0.219	5.56	24.63	36.68	X	X	X		
	10.750	273.1	0.250	6.35	28.04	41.77	X	X	X		20

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
10	10.750	273.1	0.279	7.09	31.20	46.51	X	X	X		
	10.750	273.1	0.307	7.80	34.24	51.03	X	X	X		30
	10.750	273.1	0.344	8.74	38.23	56.98	X	X	X		
	10.750	273.1	0.365	9.27	40.48	60.31	X	X	X	STD	40
	10.750	273.1	0.438	11.13	48.24	71.90	X	X	X		
	10.750	273.1	0.500	12.70	54.74	81.55	X	X	X	XS	60
	10.750	273.1	0.562	14.27	61.15	91.08	X	X	X		
	10.750	273.1	0.594	15.09	64.43	96.01					80
	10.750	273.1	0.625	15.88	67.58	100.73	X	X	X		
	10.750	273.1	0.719	18.26	77.03	114.75	X	X	X		100
	10.750	273.1	0.812	20.62	86.18	128.38	X		X		
	10.750	273.1	0.844	21.44	89.29	133.06					120
	10.750	273.1	1.000	25.40	104.13	155.15				XXS	140
	10.750	273.1	1.125	28.58	115.64	172.33					160
12	12.750	323.9	0.172	4.37	23.11	34.43	X	X	X		
	12.750	323.9	0.188	4.78	25.22	37.62	X	X	X		
	12.750	323.9	0.203	5.16	27.20	40.56		X	X		
	12.750	323.9	0.219	5.56	29.31	43.65	X	X	X		
	12.750	323.9	0.250	6.35	33.38	49.73	X	X	X		20
	12.750	323.9	0.281	7.14	37.42	55.77	X	X	X		
	12.750	323.9	0.312	7.92	41.45	61.71	X	X	X		
	12.750	323.9	0.330	8.38	43.77	65.20	X	X	X		30
	12.750	323.9	0.344	8.74	45.58	67.93	X	X	X		
	12.750	323.9	0.375	9.53	49.56	73.88	X	X	X	STD	
	12.750	323.9	0.406	10.31	53.52	79.73		X	X		40
	12.750	323.9	0.438	11.13	57.59	85.84	X	X	X		
	12.750	323.9	0.500	12.70	65.42	97.46	X	X	X	XS	
	12.750	323.9	0.562	14.27	73.15	108.96	X	X	X		60
	12.750	323.9	0.625	15.88	80.93	120.62	X	X	X		
	12.750	323.9	0.688	17.48	88.63	132.08	X	X	X		80
	12.750	323.9	0.750	19.05	96.12	143.21	X	X	X		
	12.750	323.9	0.812	20.62	103.53	154.21	X	X	X		
	12.750	323.9	0.844	21.44	107.32	159.91					100
	12.750	323.9	0.875	22.23	110.97	165.37	X	X	X		
	12.750	323.9	1.000	25.40	125.49	186.97				XXS	120
	12.750	323.9	1.125	28.58	139.67	208.14					140
	12.750	323.9	1.312	33.32	160.27	238.76					160
14	14.000	355.6	0.188	4.78	27.73	41.35	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
14	14.000	355.6	0.203	5.16	29.91	44.59	X		X		
	14.000	355.6	0.210	5.33	30.93	46.04		X	X		
	14.000	355.6	0.219	5.56	32.23	47.99		X	X		
	14.000	355.6	0.250	6.35	36.71	54.69	X	X	X		10
	14.000	355.6	0.281	7.14	41.17	61.35	X	X	X		
	14.000	355.6	0.312	7.92	45.61	67.90	X	X	X		20
	14.000	355.6	0.344	8.74	50.17	74.76	X	X	X		
	14.000	355.6	0.375	9.53	54.57	81.33	X	X	X	STD	30
	14.000	355.6	0.406	10.31	58.94	87.79		X	X		
	14.000	355.6	0.438	11.13	63.44	94.55	X	X	X		40
	14.000	355.6	0.469	11.91	67.78	100.94	X	X	X		
	14.000	355.6	0.500	12.70	72.09	107.39	X	X	X	XS	
	14.000	355.6	0.562	14.27	80.66	120.11	X	X	X		
	14.000	355.6	0.594	15.09	85.05	126.71					60
	14.000	355.6	0.625	15.88	89.28	133.03	X	X	X		
	14.000	355.6	0.688	17.48	97.81	145.75	X	X	X		
	14.000	355.6	0.750	19.05	106.13	158.10	X	X	X		80
	14.000	355.6	0.812	20.62	114.37	170.33	X	X	X		
	14.000	355.6	0.875	22.23	122.65	182.75	X	X	X		
	14.000	355.6	0.938	23.83	130.85	194.96	X	X	X		100
	14.000	355.6	1.094	27.79	150.79	224.65					120
	14.000	355.6	1.250	31.75	170.21	253.56					140
	14.000	355.6	1.406	35.71	189.11	281.70					160
	14.000	355.6	2.000	50.80	256.32	381.83					
	14.000	355.6	2.125	53.98	269.50	401.50					
	14.000	355.6	2.200	55.88	277.25	413.01					
	14.000	355.6	2.500	63.50	307.05	457.40					
16	16.000	406.4	0.188	4.78	31.75	47.34	X	X	X		
	16.000	406.4	0.203	5.16	34.25	51.06	X	X	X		
	16.000	406.4	0.219	5.56	36.91	54.96	X	X	X		
	16.000	406.4	0.250	6.35	42.05	62.64	X	X	X		10
	16.000	406.4	0.281	7.14	47.17	70.30	X	X	X		
	16.000	406.4	0.312	7.92	52.27	77.83	X	X	X		20
	16.000	406.4	0.344	8.74	57.52	85.71	X	X	X		
	16.000	406.4	0.375	9.53	62.58	93.27	X	X	X	STD	30
	16.000	406.4	0.406	10.31	67.62	100.70		X	X		
	16.000	406.4	0.438	11.13	72.80	108.49	X	X	X		
	16.000	406.4	0.469	11.91	77.79	115.86		X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
16	16.000	406,4	0.500	12.70	82.77	123.30	X	X	X	XS	40
	16.000	406,4	0.562	14.27	92.66	137.99	X	X	X		
	16.000	406,4	0.625	15.88	102.63	152.93	X	X	X		
	16.000	406,4	0.656	16.66	107.50	160.12					60
	16.000	406,4	0.688	17.48	112.51	167.65	X	X	X		
	16.000	406,4	0.750	19.05	122.15	181.97	X	X	X		
	16.000	406,4	0.812	20.62	131.71	196.16	X	X	X		
	16.000	406,4	0.844	21.44	136.61	203.53					80
	16.000	406,4	0.875	22.23	141.34	210.60	X	X	X		
	16.000	406,4	0.938	23.83	150.89	224.82	X	X	X		
	16.000	406,4	1.000	25.40	160.20	238.64	X	X	X		
	16.000	406,4	1.031	26.19	164.82	245.56					100
	16.000	406,4	1.062	26.97	169.43	252.35	X	X	X		
	16.000	406,4	1.125	28.58	178.72	266.28	X	X	X		
	16.000	406,4	1.219	30.96	192.43	286.64					120
	16.000	406,4	1.438	36.53	223.64	333.19					140
	16.000	406,4	1.594	40.49	245.25	365.35					160
18	18.000	457	0.188	4.78	35.76	53.31	X	X	X		
	18.000	457	0.219	5.56	41.59	61.90	X	X	X		
	18.000	457	0.250	6.35	47.39	70.57	X	X	X		10
	18.000	457	0.281	7.14	53.18	79.21	X	X	X		
	18.000	457	0.312	7.92	58.94	87.71	X	X	X		20
	18.000	457	0.344	8.74	64.87	96.61	X	X	X		
	18.000	457	0.375	9.53	70.59	105.16	X	X	X	STD	
	18.000	457	0.406	10.31	76.29	113.57		X	X		
	18.000	457	0.438	11.13	82.15	122.38	X	X	X		30
	18.000	457	0.459	11.91	87.81	130.72		X	X		
	18.000	457	0.500	12.70	93.45	139.15	X	X	X	XS	
	18.000	457	0.562	14.27	104.67	155.80	X	X	X		40
	18.000	457	0.625	15.88	115.98	172.74	X	X	X		
	18.000	457	0.688	17.48	127.21	189.46	X	X	X		
	18.000	457	0.750	19.05	138.17	205.74	X	X	X		60
	18.000	457	0.812	20.62	149.06	221.89	X	X	X		
	18.000	457	0.875	22.23	160.03	238.34	X	X	X		
	18.000	457	0.938	23.83	170.92	254.55	X	X	X		80
	18.000	457	1.000	25.40	181.56	270.34	X	X	X		
	18.000	457	1.062	26.97	192.11	286.00	X	X	X		
	18.000	457	1.125	28.58	202.75	301.94	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
18	18.000	457	1.156	29.36	207.96	309.62		X	X		100
	18.000	457	1.188	30.18	213.31	317.66	X	X	X		
	18.000	457	1.250	31.75	223.61	332.95	X	X	X		
	18.000	457	1.375	34.93	244.14	363.56					120
	18.000	457	1.562	39.67	274.22	408.26					140
	18.000	457	1.781	45.24	308.50	459.37					160
20	20.000	508	0.219	5.56	46.27	68.89	X	X	X		
	20.000	508	0.250	6.35	52.73	78.55	X	X	X		10
	20.000	508	0.281	7.14	59.18	88.19	X	X	X		
	20.000	508	0.312	7.92	65.60	97.67	X	X	X		
	20.000	508	0.344	8.74	72.21	107.60	X	X	X		
	20.000	508	0.375	9.53	78.60	117.15	X	X	X	STD	20
	20.000	508	0.406	10.31	84.96	126.53		X	X		
	20.000	508	0.438	11.13	91.51	136.37	X	X	X		
	20.000	508	0.469	11.91	97.83	145.70		X	X		
	20.000	508	0.500	12.70	104.13	155.12	X	X	X	XS	30
	20.000	508	0.562	14.27	116.67	173.74	X	X	X		
	20.000	508	0.594	15.09	123.11	183.42					40
	20.000	508	0.625	15.88	129.33	192.71	X	X	X		
	20.000	508	0.688	17.48	141.90	211.44	X	X	X		
	20.000	508	0.750	19.05	154.19	229.70	X	X	X		
	20.000	508	0.812	20.62	166.40	247.83	X	X	X		60
	20.000	508	0.875	22.23	178.72	266.29	X	X	X		
	20.000	508	0.938	23.83	190.96	284.52	X	X	X		
	20.000	508	1.000	25.40	202.92	302.28	X	X	X		
	20.000	508	1.031	26.19	208.87	311.17					80
	20.000	508	1.062	26.97	214.80	319.92	X	X	X		
	20.000	508	1.125	28.58	226.78	337.89	X	X	X		
	20.000	508	1.188	30.18	238.68	355.61	X	X	X		
	20.000	508	1.250	31.75	250.31	372.88	X	X	X		
	20.000	508	1.281	32.54	256.10	381.53					100
	20.000	508	1.312	33.32	261.86	390.03	X	X	X		
	20.000	508	1.375	34.93	273.51	407.49	X	X	X		
	20.000	508	1.500	38.10	296.37	441.49					120
	20.000	508	1.750	44.45	341.09	508.11					140
	20.000	508	1.969	50.01	379.17	564.81					160
22	22.000	559	0.219	5.56	50.94	75.88	X	X	X		
	22.000	559	0.250	6.35	58.07	86.54	X	X	X		10

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
22	22.000	559	0.281	7.14	65.18	97.17	X	X	X		
	22.000	559	0.312	7.92	72.27	107.63	X	X	X		
	22.000	559	0.344	8.74	79.56	118.60	X	X	X		
	22.000	559	0.375	9.53	86.61	129.13	X	X	X	STD	20
	22.000	559	0.406	10.31	93.63	139.50		X	X		
	22.000	559	0.438	11.13	100.86	150.37	X	X	X		
	22.000	559	0.469	11.91	107.85	160.68		X	X		
	22.000	559	0.500	12.70	114.81	171.09	X	X	X	XS	30
	22.000	559	0.562	14.27	128.67	191.69	X	X	X		
	22.000	559	0.625	15.88	142.68	212.69	X	X	X		
	22.000	559	0.688	17.48	156.60	233.43	X	X	X		
	22.000	559	0.750	19.05	170.21	253.65	X	X	X		
	22.000	559	0.812	20.62	183.75	273.76	X	X	X		
	22.000	559	0.875	22.23	197.41	294.25	X	X	X		60
	22.000	559	0.938	23.83	211.00	314.49	X	X	X		
	22.000	559	1.000	25.40	224.28	334.23	X	X	X		
	22.000	559	1.062	26.97	237.48	353.84	X	X	X		
	22.000	559	1.125	28.58	250.81	373.83	X	X	X		80
	22.000	559	1.188	30.18	264.06	393.57	X	X	X		
	22.000	559	1.250	31.75	277.01	412.81	X	X	X		
	22.000	559	1.312	33.32	289.88	431.94	X	X	X		
	22.000	559	1.375	34.93	302.88	451.42	X	X	X		100
	22.000	559	1.438	36.53	315.79	470.66	X	X	X		
	22.000	559	1.500	38.10	328.41	489.41	X	X	X		
	22.000	559	1.625	41.28	353.61	527.02					120
	22.000	559	1.875	47.63	403.00	600.63					140
	22.000	559	2.125	53.98	451.06	672.26					160
24	24.000	610	0.250	6.35	63.41	94.53	X	X	X		10
	24.000	610	0.281	7.14	71.18	106.15	X	X	X		
	24.000	610	0.312	7.92	78.93	117.59	X	X	X		
	24.000	610	0.344	8.74	86.91	129.59	X	X	X		
	24.000	610	0.375	9.53	94.62	141.12	X	X	X	STD	20
	24.000	610	0.406	10.31	102.31	152.47		X	X		
	24.000	610	0.438	11.13	110.22	164.37	X	X	X		
	24.000	610	0.469	11.91	117.86	175.66		X	X		
	24.000	610	0.500	12.70	125.49	187.06	X	X	X	XS	
	24.000	610	0.562	14.27	140.68	209.64	X	X	X		30
	24.000	610	0.625	15.88	156.03	232.66	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
24	24.000	610	0.688	17.48	171.29	255.41	X	X	X		40
	24.000	610	0.750	19.05	186.23	277.61	X	X	X		
	24.000	610	0.812	20.62	201.09	299.69	X	X	X		
	24.000	610	0.875	22.23	216.10	322.21	X	X	X		
	24.000	610	0.938	23.83	231.03	344.46	X	X	X		
	24.000	610	0.969	24.61	238.35	355.26					60
	24.000	610	1.000	25.40	245.64	366.17	X	X	X		
	24.000	610	1.062	26.97	260.17	387.76	X	X	X		
	24.000	610	1.125	28.58	274.84	409.77	X	X	X		
	24.000	610	1.188	30.18	289.44	431.52	X	X	X		
	24.000	610	1.219	30.96	296.58	442.08					80
	24.000	610	1.250	31.75	303.71	452.74	X	X	X		
	24.000	610	1.312	33.32	317.91	473.84	X	X	X		
	24.000	610	1.375	34.93	332.25	495.35	X	X	X		
	24.000	610	1.438	36.53	346.50	516.80	X	X	X		
	24.000	610	1.500	38.10	360.45	537.33	X	X	X		
	24.000	610	1.531	38.89	367.39	547.71					100
	24.000	610	1.562	39.67	374.31	557.43	X	X	X		
	24.000	610	1.812	46.02	429.39	640.03					120
	24.000	610	2.062	52.37	483.12	720.15					140
	24.000	610	2.344	59.54	542.13	808.22					160
26	26.000	660	0.250	6.35	68.75	102.36	X	X	X		
	26.000	660	0.281	7.14	77.18	114.95	X	X	X		
	26.000	660	0.312	7.92	85.60	127.36	X	X	X		10
	26.000	660	0.344	8.74	94.26	140.37	X	X	X		
	26.000	660	0.375	9.53	102.63	152.87	X	X	X	STD	
	26.000	660	0.406	10.31	110.98	165.18		X	X		
	26.000	660	0.438	11.13	119.57	178.09	X	X	X		
	26.000	660	0.469	11.91	127.88	190.34		X	X		
	26.000	660	0.500	12.70	136.17	202.72	X	X	X	XS	20
	26.000	660	0.562	14.27	152.68	227.23	X	X	X		
	26.000	660	0.625	15.88	169.38	252.24	X	X	X		
	26.000	660	0.688	17.48	185.99	276.96	X	X	X		
	26.000	660	0.750	19.05	202.25	301.10	X	X	X		
	26.000	660	0.812	20.62	218.43	325.12	X	X	X		
	26.000	660	0.875	22.23	234.79	349.62	X	X	X		
	26.000	660	0.938	23.83	251.07	373.84	X	X	X		
	26.000	660	1.000	25.40	267.00	397.49	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
28	28.000	711	0.250	6.35	74.09	110.34	X	X	X		
	28.000	711	0.281	7.14	83.19	123.93	X	X	X		
	28.000	711	0.312	7.92	92.26	137.32	X	X	X		10
	28.000	711	0.344	8.74	101.61	151.36	X	X	X		
	28.000	711	0.375	9.53	110.64	164.85	X	X	X	STD	
	28.000	711	0.406	10.31	119.65	178.15		X	X		
	28.000	711	0.438	11.13	128.93	192.09	X	X	X		
	28.000	711	0.469	11.91	137.90	205.32		X	X		
	28.000	711	0.500	12.70	146.85	218.69	X	X	X	XS	20
	28.000	711	0.562	14.27	164.69	245.18	X	X	X		
	28.000	711	0.625	15.88	182.73	271.21	X	X	X		30
	28.000	711	0.688	17.48	200.68	298.95	X	X	X		
	28.000	711	0.750	19.05	218.27	325.06	X	X	X		
	28.000	711	0.812	20.62	235.78	351.05	X	X	X		
	28.000	711	0.875	22.23	253.48	377.58	X	X	X		
	28.000	711	0.938	23.83	271.10	403.81	X	X	X		
	28.000	711	1.000	25.40	288.36	429.44	X	X	X		
30	30.000	762	0.250	6.35	79.43	118.33	X	X	X		
	30.000	762	0.281	7.14	89.19	132.91	X	X	X		
	30.000	762	0.312	7.92	98.93	147.28	X	X	X		10
	30.000	762	0.344	8.74	108.95	162.35		X	X		
	30.000	762	0.375	9.53	118.65	176.84	X	X	X	STD	
	30.000	762	0.406	10.31	128.32	191.11		X	X		
	30.000	762	0.438	11.13	138.29	206.09	X	X	X		
	30.000	762	0.469	11.91	147.92	220.30		X	X		
	30.000	762	0.500	12.70	157.53	234.67	X	X	X	XS	20
	30.000	762	0.562	14.27	176.69	263.12	X	X	X		
	30.000	762	0.625	15.88	196.08	292.18	X	X	X		30
	30.000	762	0.688	17.48	215.38	320.93	X	X	X		
	30.000	762	0.750	19.05	234.29	349.02	X	X	X		
	30.000	762	0.812	20.62	253.12	376.98	X	X	X		
	30.000	762	0.875	22.23	272.17	405.54	X	X	X		
	30.000	762	0.938	23.83	291.14	433.78	X	X	X		
	30.000	762	1.000	25.40	309.72	461.38	X	X	X		
	30.000	762	1.062	26.97	328.22	488.85	X	X	X		
	30.000	762	1.125	28.58	346.93	516.90	X	X	X		
	30.000	762	1.188	30.18	365.56	544.65	X	X	X		
	30.000	762	1.250	31.75	383.81	571.75	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
32	32.000	813	0.250	6.35	84.77	126.31	X	X	X		
	32.000	813	0.281	7.14	95.19	141.89	X	X	X		
	32.000	813	0.312	7.92	105.59	157.24	X	X	X		10
	32.000	813	0.344	8.74	116.30	173.34		X	X		
	32.000	813	0.375	9.53	126.66	188.82	X	X	X	STD	
	32.000	813	0.406	10.31	136.99	204.08		X	X		
	32.000	813	0.438	11.13	147.64	220.08	X	X	X		
	32.000	813	0.469	11.91	157.94	235.28		X	X		
	32.000	813	0.500	12.70	168.21	250.64	X	X	X	XS	20
	32.000	813	0.562	14.27	188.70	281.07	X	X	X		
	32.000	813	0.625	15.88	209.43	312.15	X	X	X		30
	32.000	813	0.688	17.48	230.08	342.91	X	X	X		40
	32.000	813	0.750	19.05	250.31	372.98	X	X	X		
	32.000	813	0.812	20.62	270.47	402.92	X	X	X		
	32.000	813	0.875	22.23	290.86	433.49	X	X	X		
	32.000	813	0.938	23.83	311.17	463.75	X	X	X		
	32.000	813	1.000	25.40	331.08	493.32	X	X	X		
	32.000	813	1.062	26.97	350.90	522.77	X	X	X		
	32.000	813	1.125	28.58	370.96	552.85	X	X	X		
	32.000	813	1.188	30.18	390.94	582.61	X	X	X		
	32.000	813	1.250	31.75	410.51	611.68	X	X	X		
34	34.000	864	0.250	6.35	90.11	134.30	X	X	X		
	34.000	864	0.281	7.14	101.19	150.87	X	X	X		
	34.000	864	0.312	7.92	112.25	167.20	X	X	X		10
	34.000	864	0.344	8.74	123.65	184.33		X	X		
	34.000	864	0.375	9.53	134.67	200.31	X	X	X	STD	
	34.000	864	0.406	10.31	145.67	217.05		X	X		
	34.000	864	0.438	11.13	157.00	234.08	X	X	X		
	34.000	864	0.469	11.91	167.95	250.26		X	X		
	34.000	864	0.500	12.70	178.89	266.61	X	X	X	XS	20
	34.000	864	0.562	14.27	200.70	299.02	X	X	X		
	34.000	864	0.625	15.88	222.78	332.12	X	X	X		30
	34.000	864	0.688	17.48	244.77	364.90	X	X	X		40
	34.000	864	0.750	19.05	266.33	396.93	X	X	X		
	34.000	864	0.812	20.62	287.81	428.85	X	X	X		
	34.000	864	0.875	22.23	309.55	461.45	X	X	X		
	34.000	864	0.938	23.83	331.21	493.72	X	X	X		
	34.000	864	1.000	25.40	352.44	525.27	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
34	34.000	864	1.062	26.97	373.59	556.69	X	X	X		
	34.000	864	1.125	28.58	394.99	588.79	X	X	X		
	34.000	864	1.188	30.18	416.31	620.56	X	X	X		
	34.000	864	1.250	31.75	437.21	651.61	X	X	X		
36	36.000	914	0.250	6.35	95.45	142.13	X	X	X		
	36.000	914	0.281	7.14	107.20	159.67	X	X	X		
	36.000	914	0.312	7.92	118.92	176.96	X	X	X		10
	36.000	914	0.344	8.74	131.00	195.11		X	X		
	36.000	914	0.375	9.53	142.68	212.56	X	X	X	STD	
	36.000	914	0.406	10.31	154.34	229.76		X	X		
	36.000	914	0.438	11.13	166.35	247.31	X	X	X		
	36.000	914	0.469	11.91	177.97	264.94		X	X		
	36.000	914	0.500	12.70	189.57	282.27	X	X	X	XS	20
	36.000	914	0.562	14.27	212.70	316.11	X	X	X		
	36.000	914	0.625	15.88	236.13	351.70	X	X	X		30
	36.000	914	0.688	17.48	259.47	386.45	X	X	X		
	36.000	914	0.750	19.05	282.35	420.42	X	X	X		40
	36.000	914	0.812	20.62	305.16	454.27	X	X	X		
	36.000	914	0.875	22.23	328.24	488.86	X	X	X		
	36.000	914	0.938	23.83	351.25	523.11	X	X	X		
	36.000	914	1.000	25.40	373.80	556.59	X	X	X		
	36.000	914	1.062	26.97	396.27	589.95	X	X	X		
	36.000	914	1.125	28.58	419.02	624.03	X	X	X		
	36.000	914	1.188	30.18	441.69	657.77	X	X	X		
	36.000	914	1.250	31.75	463.91	690.76	X	X	X		
38	38.000	965	0.312	7.92	125.58	186.92	X	X	X		
	38.000	965	0.344	8.74	138.35	206.10	X	X	X		
	38.000	965	0.375	9.53	150.69	224.54	X	X	X	STD	
	38.000	965	0.406	10.31	163.01	242.72	X	X	X		
	38.000	965	0.438	11.13	175.71	261.80	X	X	X		
	38.000	965	0.469	11.91	187.99	279.92	X	X	X		
	38.000	965	0.500	12.70	200.25	298.24	X	X	X	XS	
	38.000	965	0.562	14.27	224.71	334.56	X	X	X		
	38.000	965	0.625	15.88	249.48	371.68	X	X	X		
	38.000	965	0.688	17.48	274.16	408.43	X	X	X		
	38.000	965	0.750	19.05	298.37	444.38	X	X	X		
	38.000	965	0.812	20.62	322.50	480.21	X	X	X		
	38.000	965	0.875	22.23	346.93	516.82	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
38	38.000	965	0.938	23.83	371.28	553.08	X	X	X		
	38.000	965	1.000	25.40	395.16	588.53	X	X	X		
	38.000	965	1.062	26.97	418.96	623.87	X	X	X		
	38.000	965	1.125	28.58	443.05	659.97	X	X	X		
	38.000	965	1.188	30.18	467.06	695.73	X	X	X		
	38.000	965	1.250	31.75	490.61	730.69	X	X	X		
40	40.000	1016	0.312	7.92	132.25	196.89	X	X	X		
	40.000	1016	0.344	8.74	145.69	217.09	X	X	X		
	40.000	1016	0.375	9.53	158.70	236.53	X	X	X	STD	
	40.000	1016	0.406	10.31	171.68	255.69	X	X	X		
	40.000	1016	0.438	11.13	185.06	275.80	X	X	X		
	40.000	1016	0.469	11.91	198.01	294.90	X	X	X		
	40.000	1016	0.500	12.70	210.93	314.22	X	X	X	XS	
	40.000	1016	0.562	14.27	236.71	352.51	X	X	X		
	40.000	1016	0.625	15.88	262.83	391.65	X	X	X		
	40.000	1016	0.688	17.48	288.86	430.42	X	X	X		
	40.000	1016	0.750	19.05	314.39	468.34	X	X	X		
	40.000	1016	0.812	20.62	339.84	506.14	X	X	X		
	40.000	1016	0.875	22.23	365.62	544.78	X	X	X		
	40.000	1016	0.938	23.83	391.32	583.05	X	X	X		
	40.000	1016	1.000	25.40	416.52	620.48	X	X	X		
	40.000	1016	1.062	26.97	441.64	657.78	X	X	X		
	40.000	1016	1.125	28.58	467.08	695.92	X	X	X		
	40.000	1016	1.188	30.18	492.44	733.68	X	X	X		
	40.000	1016	1.250	31.75	517.31	770.62	X	X	X		
	42.000	1067	0.344	8.74	153.04	228.09	X	X	X		
	42.000	1067	0.375	9.53	166.71	248.52	X	X	X	STD	
	42.000	1067	0.406	10.31	180.35	268.66	X	X	X		
	42.000	1067	0.438	11.13	194.42	289.80	X	X	X		
	42.000	1067	0.469	11.91	208.03	309.88	X	X	X		
	42.000	1067	0.500	12.70	221.61	330.19	X	X	X	XS	
	42.000	1067	0.562	14.27	248.72	370.45	X	X	X		
	42.000	1067	0.625	15.88	276.18	411.62	X	X	X		
	42.000	1067	0.688	17.48	303.55	452.40	X	X	X		
	42.000	1067	0.750	19.05	330.41	492.30	X	X	X		
	42.000	1067	0.812	20.62	357.19	532.07	X	X	X		
	42.000	1067	0.875	22.23	384.31	572.73	X	X	X		
	42.000	1067	0.938	23.83	411.35	613.02	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
42	42.000	1067	1.000	25.40	437.88	652.42	X	X	X		
	42.000	1067	1.062	26.97	464.32	691.70	X	X	X		
	42.000	1067	1.125	28.58	491.11	731.86	X	X	X		
	42.000	1067	1.188	30.18	517.82	771.64	X	X	X		
	42.000	1067	1.250	31.75	544.01	810.55	X	X	X		
44	44.000	1118	0.344	8.74	160.39	239.08	X	X	X		
	44.000	1118	0.375	9.53	174.72	260.50	X	X	X	STD	
	44.000	1118	0.406	10.31	189.03	281.62	X	X	X		
	44.000	1118	0.438	11.13	203.78	303.80	X	X	X		
	44.000	1118	0.469	11.91	218.04	324.80	X	X	X		
	44.000	1118	0.500	12.70	232.29	346.16	X	X	X	XS	
	44.000	1118	0.562	14.27	260.72	388.40	X	X	X		
	44.000	1118	0.625	15.88	289.53	431.59	X	X	X		
	44.000	1118	0.688	17.48	318.25	474.37	X	X	X		
	44.000	1118	0.750	19.05	346.43	516.26	X	X	X		
	44.000	1118	0.812	20.62	374.53	558.00	X	X	X		
	44.000	1118	0.875	22.23	403.00	600.69	X	X	X		
	44.000	1118	0.938	23.83	431.39	642.99	X	X	X		
	44.000	1118	1.000	25.40	459.24	684.37	X	X	X		
	44.000	1118	1.062	26.97	487.01	725.62	X	X	X		
	44.000	1118	1.125	28.58	515.14	767.80	X	X	X		
	44.000	1118	1.188	30.18	543.19	809.60	X	X	X		
	44.000	1118	1.250	31.75	570.71	850.48	X	X	X		
46	46.000	1168	0.344	8.74	167.74	249.85	X	X	X		
	46.000	1168	0.375	9.53	182.73	272.25	X	X	X	STD	
	46.000	1168	0.406	10.31	197.70	294.34	X	X	X		
	46.000	1168	0.438	11.13	213.13	317.52	X	X	X		
	46.000	1168	0.469	11.91	228.06	339.54	X	X	X		
	46.000	1168	0.500	12.70	242.97	351.82	X	X	X	XS	
	46.000	1168	0.562	14.27	272.73	406.00	X	X	X		
	46.000	1168	0.625	15.88	302.88	451.17	X	X	X		
	46.000	1168	0.688	17.48	332.95	495.94	X	X	X		
	46.000	1168	0.750	19.05	362.45	539.76	X	X	X		
	46.000	1168	0.812	20.62	391.88	583.43	X	X	X		
	46.000	1168	0.875	22.23	421.69	628.10	X	X	X		
	46.000	1168	0.938	23.83	451.42	672.37	X	X	X		
	46.000	1168	1.000	25.40	480.60	715.68	X	X	X		
	46.000	1168	1.062	26.97	509.69	758.88	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
46	46.000	1168	1.125	28.58	539.17	803.04	X	X	X		
	46.000	1168	1.188	30.18	568.57	846.81	X	X	X		
	46.000	1168	1.250	31.75	597.41	889.63	X	X	X		
48	48.000	1219	0.344	8.74	175.08	260.85	X	X	X		
	48.000	1219	0.375	9.53	190.74	284.24	X	X	X	STD	
	48.000	1219	0.406	10.31	206.37	307.30	X	X	X		
	48.000	1219	0.438	11.13	222.49	331.52	X	X	X		
	48.000	1219	0.469	11.91	238.08	354.52	X	X	X		
	48.000	1219	0.500	12.70	253.65	377.79	X	X	X	XS	
	48.000	1219	0.562	14.27	284.73	423.94	X	X	X		
	48.000	1219	0.625	15.88	316.23	471.14	X	X	X		
	48.000	1219	0.688	17.48	347.64	517.92	X	X	X		
	48.000	1219	0.750	19.05	378.47	563.70	X	X	X		
	48.000	1219	0.812	20.62	409.22	609.36	X	X	X		
	48.000	1219	0.875	22.23	440.38	656.06	X	X	X		
	48.000	1219	0.938	23.83	471.46	702.34	X	X	X		
	48.000	1219	1.000	25.40	501.96	747.63	X	X	X		
	48.000	1219	1.062	26.97	532.38	792.80	X	X	X		
	48.000	1219	1.125	28.58	563.20	838.99	X	X	X		
	48.000	1219	1.188	30.18	593.94	884.77	X	X	X		
	48.000	1219	1.250	31.75	624.11	929.56	X	X	X		
52	52.000	1321	0.375	9.53	206.76	308.21	X	X	X		
	52.000	1321	0.406	10.31	223.72	333.24	X	X	X		
	52.000	1321	0.438	11.13	241.20	359.51	X	X	X		
	52.000	1321	0.469	11.91	258.11	384.48	X	X	X		
	52.000	1321	0.500	12.70	275.01	409.64	X	X	X		
	52.000	1321	0.562	14.27	308.74	459.84	X	X	X		
	52.000	1321	0.625	15.88	342.93	511.09	X	X	X		
	52.000	1321	0.688	17.48	377.03	561.89	X	X	X		
	52.000	1321	0.750	19.05	410.51	611.62	X	X	X		
	52.000	1321	0.812	20.62	443.91	661.23	X	X	X		
	52.000	1321	0.875	22.23	477.76	711.98	X	X	X		
	52.000	1321	0.938	23.83	511.53	762.28	X	X	X		
	52.000	1321	1.000	25.40	544.68	811.52	X	X	X		
	52.000	1321	1.062	26.97	577.75	860.63	X	X	X		
	52.000	1321	1.125	28.58	611.26	910.88	X	X	X		
	52.000	1321	1.188	30.18	644.69	960.68	X	X	X		
	52.000	1321	1.250	31.75	677.51	1009.42	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
56	56.000	1422	0.375	9.53	222.78	331.94	X	X	X		
	56.000	1422	0.406	10.31	241.06	358.91	X	X	X		
	56.000	1422	0.438	11.13	259.91	387.24	X	X	X		
	56.000	1422	0.459	11.91	278.15	414.14	X	X	X		
	56.000	1422	0.500	12.70	296.37	441.37	X	X	X		
	56.000	1422	0.562	14.27	332.75	495.38	X	X	X		
	56.000	1422	0.625	15.88	369.63	550.54	X	X	X		
	56.000	1422	0.688	17.48	406.42	605.43	X	X	X		
	56.000	1422	0.750	19.05	442.55	659.07	X	X	X		
	56.000	1422	0.812	20.62	478.60	712.59	X	X	X		
	56.000	1422	0.875	22.23	515.14	767.34	X	X	X		
	56.000	1422	0.938	23.83	551.60	821.63	X	X	X		
	56.000	1422	1.000	25.40	587.40	875.78	X	X	X		
	56.000	1422	1.062	26.97	623.12	927.81	X	X	X		
	56.000	1422	1.125	28.58	659.32	982.06	X	X	X		
	56.000	1422	1.188	30.18	695.45	1035.85	X	X	X		
	56.000	1422	1.250	31.75	730.91	1088.50	X	X	X		
60	60.000	1524	0.375	9.53	238.80	355.92	X	X	X		
	60.000	1524	0.406	10.31	258.40	384.85	X	X	X		
	60.000	1524	0.438	11.13	278.62	415.23	X	X	X		
	60.000	1524	0.469	11.91	298.19	444.10	X	X	X		
	60.000	1524	0.500	12.70	317.73	473.31	X	X	X		
	60.000	1524	0.562	14.27	356.76	531.27	X	X	X		
	60.000	1524	0.625	15.88	396.33	590.58	X	X	X		
	60.000	1524	0.688	17.48	435.81	649.40	X	X	X		
	60.000	1524	0.750	19.05	474.59	706.98	X	X	X		
	60.000	1524	0.812	20.62	513.29	764.45	X	X	X		
	60.000	1524	0.875	22.23	552.52	823.26	X	X	X		
	60.000	1524	0.938	23.83	591.67	881.57	X	X	X		
	60.000	1524	1.000	25.40	630.12	938.67	X	X	X		
	60.000	1524	1.062	26.97	668.48	995.64	X	X	X		
	60.000	1524	1.125	28.58	707.38	1053.95	X	X	X		
	60.000	1524	1.188	30.18	746.20	1111.76	X	X	X		
	60.000	1524	1.250	31.75	784.31	1168.36	X	X	X		
64	64.000	1626	0.375	9.53	254.82	379.89	X	X	X		
	64.000	1626	0.406	10.31	275.75	410.78	X	X	X		
	64.000	1626	0.438	11.13	297.33	443.23	X	X	X		
	64.000	1626	0.469	11.91	318.22	474.06	X	X	X		

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Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
64	64.000	1626	0.500	12.70	339.09	505.26	X	X	X		
	64.000	1626	0.562	14.27	380.76	567.16	X	X	X		
	64.000	1626	0.625	15.88	423.03	630.52	X	X	X		
	64.000	1626	0.688	17.48	465.21	693.36	X	X	X		
	64.000	1626	0.750	19.05	506.63	754.90	X	X	X		
	64.000	1626	0.812	20.62	547.98	816.32	X	X	X		
	64.000	1626	0.875	22.23	589.90	879.17	X	X	X		
	64.000	1626	0.938	23.83	631.74	941.51	X	X	X		
	64.000	1626	1.000	25.40	672.84	1002.56	X	X	X		
	64.000	1626	1.062	26.97	713.85	1063.48	X	X	X		
	64.000	1626	1.125	28.58	755.44	1125.83	X	X	X		
	64.000	1626	1.188	30.18	796.95	1187.67	X	X	X		
	64.000	1626	1.250	31.75	837.71	1248.23	X	X	X		
	68.000	1727	0.469	11.91	338.26	503.72			X		
68	68.000	1727	0.500	12.70	360.45	536.89			X		
	68.000	1727	0.562	14.27	404.77	602.71			X		
	68.000	1727	0.625	15.88	449.73	670.08			X		
	68.000	1727	0.688	17.48	494.60	736.90			X		
	68.000	1727	0.750	19.05	538.67	802.35			X		
	68.000	1727	0.812	20.62	582.66	867.68			X		
	68.000	1727	0.875	22.23	627.28	934.54			X		
	68.000	1727	0.938	23.83	671.82	1000.86			X		
	68.000	1727	1.000	25.40	715.56	1065.82			X		
	68.000	1727	1.062	26.97	759.22	1130.66			X		
	68.000	1727	1.125	28.58	803.50	1197.02			X		
	68.000	1727	1.188	30.18	847.70	1262.84			X		
	68.000	1727	1.250	31.75	891.11	1327.30			X		
	72.000	1829	0.500	12.70	381.81	568.83			X		
72	72.000	1829	0.562	14.27	428.78	638.60			X		
	72.000	1829	0.625	15.88	476.43	710.02			X		
	72.000	1829	0.688	17.48	523.99	780.87			X		
	72.000	1829	0.750	19.05	570.71	850.29			X		
	72.000	1829	0.812	20.62	617.35	919.54			X		
	72.000	1829	0.875	22.23	664.66	990.46			X		
	72.000	1829	0.938	23.83	711.89	1060.80			X		
	72.000	1829	1.000	25.40	758.28	1129.71			X		
	72.000	1829	1.062	26.97	804.59	1198.49			X		
	72.000	1829	1.125	28.58	851.56	1268.91			X		

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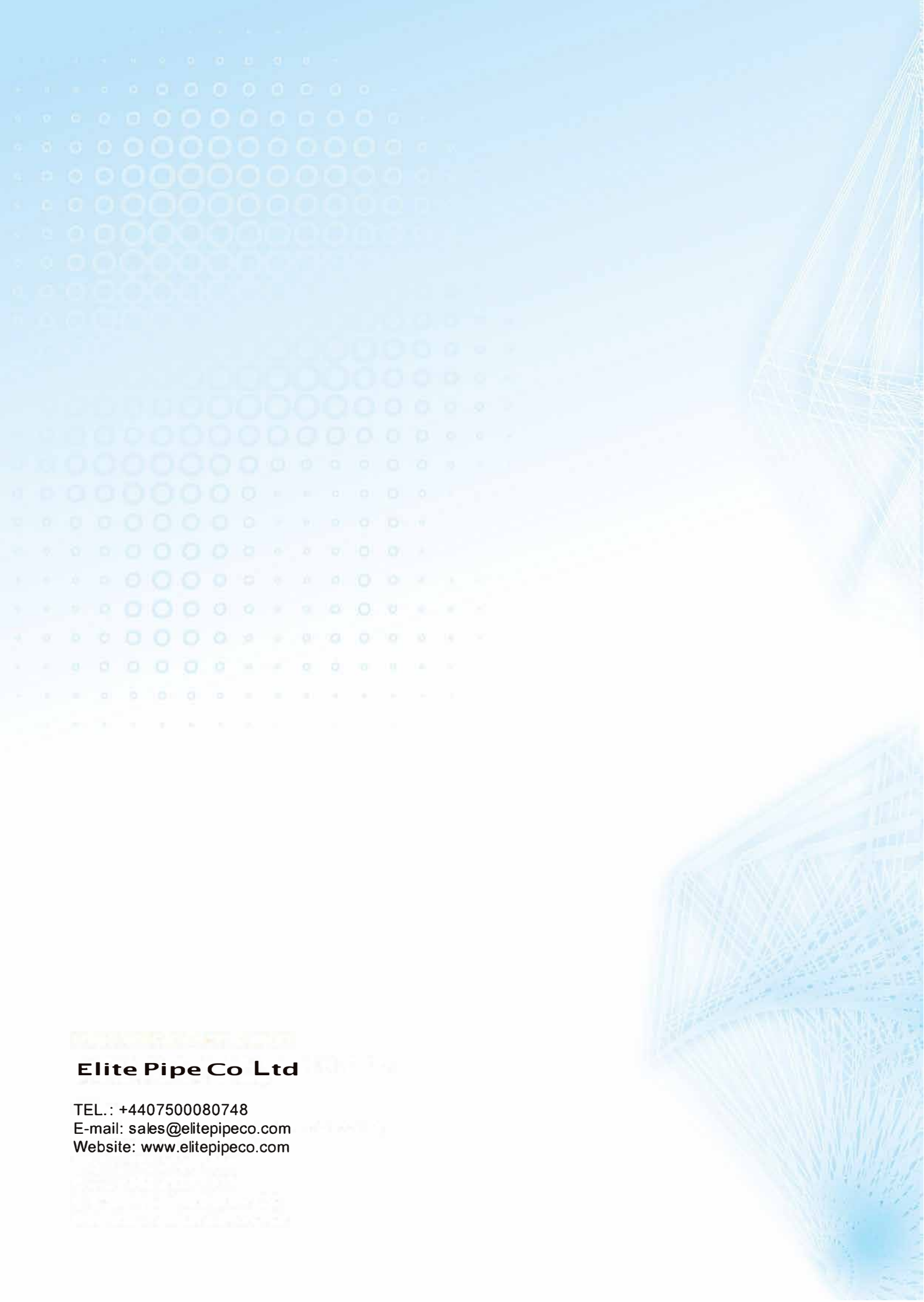
Steel Pipes

DIMENSIONS AND WEIGHTS OF STEEL PIPES TO ANSI B36.10

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification				
							API Specifications			W.T. STD XS XXS	Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	5L 3/82	5LX 3/82	5LS 3/82		
72	72.000	1829	1.188	30.18	898.45	1338.75			X		
	72.000	1829	1.250	31.75	944.51	1407.17			X		
76	76.000	1930	0.500	12.70	403.17	600.46			X		
	76.000	1930	0.562	14.27	452.79	674.14			X		
	76.000	1930	0.625	15.88	503.13	749.57			X		
	76.000	1930	0.688	17.48	553.38	824.40			X		
	76.000	1930	0.750	19.05	602.75	897.71			X		
	76.000	1930	0.812	20.62	652.04	970.90			X		
	76.000	1930	0.875	22.23	702.04	1045.82			X		
	76.000	1930	0.938	23.83	751.96	1120.16			X		
	76.000	1930	1.000	25.40	801.00	1192.97			X		
	76.000	1930	1.062	26.97	849.96	1265.67			X		
	76.000	1930	1.125	28.58	899.62	1340.09			X		
	76.000	1930	1.188	30.18	949.20	1413.92			X		
	76.000	1930	1.250	31.75	997.91	1486.24			X		
	80.000	2032	0.562	14.27	476.80	710.04			X		
80	80.000	2032	0.625	15.88	529.83	789.51			X		
	80.000	2032	0.688	17.48	582.77	868.37			X		
	80.000	2032	0.750	19.05	634.79	945.63			X		
	80.000	2032	0.812	20.62	686.73	1022.76			X		
	80.000	2032	0.875	22.23	739.42	1101.74			X		
	80.000	2032	0.938	23.83	792.03	1180.10			X		
	80.000	2032	1.000	25.40	843.72	1256.86			X		
	80.000	2032	1.062	26.97	895.33	1333.50			X		
	80.000	2032	1.125	28.58	947.68	1411.97			X		
	80.000	2032	1.188	30.18	999.95	1489.83			X		
	80.000	2032	1.250	31.75	1051.31	1566.11			X		

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