CARBON STEEL & ALLOY STEEL PIPE DIMENSIONS ANSI B 36.10

Nominal Pipe size		O/D	Schedule 10		Schedule 20		Schedule 30		Schedule STD		Schedule 40		Schedule 60		Schedule XS		Schedule 80		Schedule 100		Schedule 120		Schedule 140		Schedule 160		Schedule XXS	
MM	INCH	MM	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M
3	1/8	10.3							1.73	0.37	1.73	0.37			2.41	0.47	2.41	0.47										
6	1/4	13.7							2.24	0.63	2.24	0.63			3.02	0.80	3.02	0.80										
10	3/8	17.1							2.31	0.84	2.31	0.84			3.20	1.10	3.20	1.10										
15	1/2	21.3							2.77	1.27	2.77	1.27			3.73	1.62	3.73	1.62							4.78	1.95	7.5	2.55
20	3/4	26.7							2.87	1.69	2.87	1.69			3.91	2.20	3.91	2.20							5.56	2.90	7.82	3.64
25	1	33.4							3.38	2.50	3.38	2.50			4.55	3.24	4.55	3.24							6.35	4.24	9.1	5.45
32	1¼	42.2							3.56	3.39	3.56	3.39			4.85	4.47	4.85	4.47							6.35	5.61	9.7	7.77
40	1½	48.3							3.68	4.05	3.68	4.05			5.08	5.41	5.08	5.41							7.14	7.25	10.2	9.56
50	2	60.3							3.91	5.44	3.91	5.44			5.54	7.48	5.54	7.48							8.74	11.11	11.1	13.4
65	2½	73.0							5.16	8.63	5.16	8.63			7.01	11.41	7.01	11.41							9.53	14.92	14.0	20.4
80	3	88.9							5.49	11.3	5.49	11.3			7.62	15.3	7.62	15.3							11.13	21.35	15.24	27.7
90	3½	101.6							5.74	13.57	5.74	13.57			8.08	18.63	8.08	18.63							-			
100	4	114.3							6.02	16.07	6.02	16.07			8.56	22.3	8.56	22.3			11.13	28.32			13.5	33.5	17.12	41.03
125	5	141.3							6.55	21.77	6.55	21.77			9.53	30.9	9.53	30.9			12.7	40.2			15.9	49.11	19.0	57.4
150	6	168.3							7.11	28.26	7.11	28.26			10.97	42.5	10.97	42.5			14.3	54.2			18.3	67.5	21.95	79.22
200	8	219.1			6.35	33.3	7.0	36.8	8.18	42.5	8.18	42.5	10.31	53.1	12.7	64.6	12.7	64.5	15.1	75.92	18.3	90.4	20.6	100.9	23.0	111.27	22.23	108.0
250	10	273.0			6.35	41.7	7.8	51.3	9.27	60.3	9.27	60.3	12.7	81.5	12.7	81.5	15.1	96.0	18.3	114.7	21.44	133.0	25.4	155	28.6	172.3	25.4	155.0
300	12	323.8			6.35	49.7	8.4	65.2	9.53	73.8	10.31	79.7	14.27	109.0	12.7	97.4	17.5	132.0	21.4	160.0	25.4	187.0	28.6	208	33.3	238.7	25.4	187.0
350	14	355.6	6.35	54.7	7.92	68.1	9.53	81.3	9.53	81.3	11.13	94.6	15.09	126.0	12.7	107.0	19.0	158.0	23.8	195.0	27.8	224.0	31.8	253.5	35.7	281		
400	16	406.4	6.35	62.6	7.92	77.9	9.53	93.3	9.53	93.3	12.7	123.0	16.66	160.0	12.7	123.0	21.44	203.0	26.2	245.0	30.9	286.0	36.53	333	40.5	366.0		
450	18	457.2	6.35	70.6	7.92	87.7	11.13	122.0	9.53	105.0	14.20	156.0	19.05	206.0	12.7	139.0	23.8	254.6	29.36	310.0	34.0	363.0	39.7	408.3	45.2	459.0		
500	20	508.0	6.35	78.5	9.53	117.2	12.7	155.1	9.53	117.2	15.09	183.0	20.62	248.0	12.7	155.1	26.2	311.0	32.5	381.0	38.1	441.0	44.4	508	50.0	564.0		
550	22	558.8	6.35	86.6	9.53	129.0	12.7	171.0	9.53	129.0			22.2	294.0	12.7	171.0	28.6	373.0	34.9	451.0	41.3	527.0	47.6	600	54.0	672.0		
600	24	610.0	6.35	94.5	9.53	141.0	14.3	210.0	9.53	141.0	17.48	255.0	24.61	355.0	12.7	187.0	30.9	442.08	38.8	547.7	46.0	640.0	52.4	720.15	59.5	808.22		
650	26	660.0	7.92	127.3	12.7	203.0			9.53	153.0					12.7	202												
700	28	711.0	7.92	137.4	12.7	218.0	15.88	272.0	9.53	165.0					12.7	218												
750	30	762.0	7.92	147.9	12.7	234.6	15.88	292.2	9.53	176.0					12.7	235												
800	32	812.8	7.92	157.9	12.7	250.6	15.88	312.0	9.53	188.2	17.48	342.0			12.7	251												
850	34	863.6	7.92	167.9	12.7	266.5	15.88	331.7	9.53	200.0	17.48	364.9			12.7	266												
900	36	914.4	7.92	176.9	12.7	282.4	15.88	352.2	9.53	212.0	19.05	420.6			12.7	282												

All Dimensions in millimeters. W.T. = Wall Thickness. KG/M = Kilograms per Meter.

CARBON STEEL ERW / WELDED PIPES DIMENSION & WEIGHT (ANSI B 36.10)

Nominal Bore		Light (A Class)			Medium (B Class)			Heavy (C Class)			Size			Wall Thickness							
Inch	mm	OD	Thk	Kg/Mtr	OD	Thk	Kg/Mtr	OD	Thk	Kg/Mtr	Inch	NB	OD	4mm	5mm	6mm	6.35mm	7mm	8mm	9.5mm	10mm
1/2	15	21.20	2.00	0.95	21.40	2.65	1.22	21.40	3.25	1.45	8	200.00	219.10	21.22	26.40	31.53	33.31	36.61	41.65	49.10	51.56
3/4	20	26.60	2.35	1.41	26.90	2.65	1.58	26.90	3.25	1.90	10	250.00	273.10	26.54	33.06	39.52	41.77	45.93	52.30	61.75	64.88
1	25	33.50	2.65	2.01	33.80	3.25	2.44	33.80	4.05	2.97	12	300.00	323.90	31.55	39.32	47.04	49.73	54.70	62.32	73.65	77.41
1 1/4	32	42.20	2.65	2.58	42.50	3.25	3.14	42.50	4.05	3.84	14	350.00	355.60	34.68	43.23	51.73	54.69	60.18	68.57	81.08	85.22
1 1/2	40	48.10	2.90	3.25	48.40	3.25	3.61	48.40	4.05	4.43	16	400.00	406.40	39.69	49.49	59.24	62.64	68.94	78.60	92.98	97.75
2	50	59.90	2.90	4.11	60.30	3.65	5.10	60.30	4.50	6.17	18	450.00	457.20	44.68	55.73	66.73	70.57	77.68	88.58	104.84	110.23
2 1/2	65	75.60	3.25	5.80	76.00	3.65	6.51	76.00	4.50	7.90	20	500.00	508.00	49.71	62.02	74.28	78.55	86.48	94.64	116.78	122.81
3	80	88.30	3.25	6.81	88.80	4.05	8.47	88.80	4.85	10.10	24	600.00	609.60	59.78	74.60	89.37	94.53	104.09	118.76	140.68	147.96
4	100	113.40	3.65	9.89	114.10	4.50	12.10	114.10	5.40	14.40											
5	125				139.60	4.85	16.20	139.60	5.40	17.80											
6	150				165.10	4.85	19.20	165.10	5.40	21.20											

ANSI B 36.19 STAINLESS STEEL PIPE DIMENSION IN MM & WEIGHT PER KG.

Nominal Pipe size		Outside Diameter	Schedule 5S		Schedule 10S		Schedule 20S		Schedule 40S		Schedule 80S		Schedule 160S		Schedule XXS	
MM	INCH	MM	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M	W.T.	KG/M
3	1/8	10.3	1.2	0.26	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.2	0.37	1.65	0.49	2.00	0.58	2.24	0.630	3.02	0.80	-	-	-	-
10	3/8	17.1	1.2	0.47	1.65	0.63	2.00	0.74	2.31	0.840	3.20	1.10	-	-	-	-
15	1/2	21.3	1.65	0.80	2.11	1.00	2.30	1.07	2.77	1.27	3.73	1.62	4.78	1.94	7.47	2.55
20	3/4	26.7	1.65	1.02	2.11	1.28	2.55	1.52	2.87	1.69	3.91	2.20	5.56	2.90	7.82	3.64
25	1	33.4	1.65	1.30	2.77	2.09	2.55	1.94	3.38	2.50	4.55	3.24	6.35	4.24	9.09	5.45
32	1.1/4	42.2	1.65	1.65	2.77	2.70	3.00	2.90	3.56	3.39	4.85	4.47	6.35	5.61	9.70	7.77
40	1.1/2	48.3	1.65	1.90	2.77	3.11	3.00	3.35	3.68	4.05	5.08	5.41	7.14	7.25	10.15	9.55
50	2	60.3	1.65	2.39	2.77	3.93	3.00	4.24	3.91	5.44	5.54	7.48	8.74	11.11	11.07	13.44
65	2.1/2	73.0	2.11	3.69	3.05	5.26	4.00	6.81	5.16	8.63	7.01	11.41	9.53	14.91	14.02	20.39
80	3	88.9	2.11	4.51	3.05	6.45	4.00	8.37	5.49	11.29	7.62	15.27	11.1	21.30	15.24	27.68
100	4	114.3	2.11	5.84	3.05	8.36	4.50	12.18	6.02	16.07	8.56	22.32	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	5.00	16.80	6.55	21.8	9.53	30.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.82	6.35	25.36	7.11	28.26	10.97	42.56	18.25	67.53	21.95	79.22
200	8	219.1	2.77	14.78	3.76	19.96	6.35	33.31	8.18	42.55	12.7	64.64	23.01	111.27	22.23	107.92
250	10	273.1	3.40	22.61	4.19	27.78	6.35	41.77	9.27	60.31	12.7	81.55	28.58	172.33	25.40	155.15
300	12	323.8	3.96	31.24	4.57	36.00	6.35	49.7	9.53	73.85	12.7	97.43	33.32	238.68	25.40	186.90
350	14	355.6	3.96	34.34	4.78	41.30	7.92	67.90	11.13	94.54						
400	16	406.4	4.19	41.56	4.78	47.34	7.92	77.82	12.7	123.30						
450	18	457.2	4.19	46.81	4.78	53.32	7.92	87.74	14.27	155.86						
500	20	508.0	4.78	59.31	5.54	68.64	9.53	117.14	15.09	183.42						
600	24	610.0	5.54	82.57	6.35	94.52	9.53	141.11	17.48	255.41						

ASTM A 312 GR. TP 304/304L

ASTM A 312 GR. TP 316/316L

ASTM A 358 GR. TP 317L

All Dimensions in millimeters. W.T. = Wall Thickness. KG/M = Kilograms per Meter.

FORMULA FOR CALCULATING WEIGHT

ROUND BARS

Stainless Steel : D x D x 0.0019 x 3.281 = Wt. Per Mtr.
Bronze : D x D x 0.0019 x 3.281 = Wt. Per Mtr.
Brass : D x D x 0.0021 x 3.281 = Wt. Per Mtr.
Copper : D x D x 0.0022 x 3.281 = Wt. Per Mtr.
Aluminum : D x D x 0.0007 x 3.281 = Wt. Per Mtr.

SQUARE BARS

Stainless Steel : D x D x 0.0024 x 3.281 = Wt. Per Mtr.
Bronze : D x D x 0.0024 x 3.281 = Wt. Per Mtr.
Brass : D x D x 0.0026 x 3.281 = Wt. Per Mtr.
Copper : D x D x 0.0029 x 3.281 = Wt. Per Mtr.
Aluminum : D x D x 0.0008 x 3.281 = Wt. Per Mtr.

HEX BARS

Stainless Steel : D x D x 0.0020 x 3.281 = Wt. Per Mtr.
Bronze : D x D x 0.0020 x 3.281 = Wt. Per Mtr.
Brass : D x D x 0.0073 x 3.281 = Wt. Per Mtr.
Copper : D x D x 0.0024 x 3.281 = Wt. Per Mtr.
Aluminum : D x D x 0.0007 x 3.281 = Wt. Per Mtr.

FLAT BARS

Stainless Steel : Wdt. x Thk. x 0.0024 x 3.281 = Wt. Per Mtr.
Bronze : Wdt. x Thk. x 0.0024 x 3.281 = Wt. Per Mtr.
Brass : Wdt. x Thk. x 0.0026 x 3.281 = Wt. Per Mtr.
Copper : Wdt. x Thk. x 0.0027 x 3.281 = Wt. Per Mtr.
Aluminum : Wdt. x Thk. x 0.0008 x 3.281 = Wt. Per Mtr.

PIPE

Stainless Steel : (O.D. - W. Thk) x W. Thk. x 0.00756 x 3.281 = Wt. Per Mtr.
Brass : (O.D. - W. Thk) x W. Thk. x 0.00792 x 3.281 = Wt. Per Mtr.
Copper : (O.D. - W. Thk) x W. Thk. x 0.00792 x 3.281 = Wt. Per Mtr.
Aluminum : (O.D. - W. Thk) x W. Thk. x 0.00252 x 3.281 = Wt. Per Mtr.

SHEETS

Stainless Steel : Lenght (Mtrs) x Width (Mtrs) x Thick (mm) x 8 = Kg. Per Sheet
Aluminum : Lenght (Mtrs) x Width (Mtrs) x Thick (mm) x 2.69 = Kg. Per Sheet

STAINLESS STEEL

Plates : Lenght (Mtrs) x Width (Mtrs) x Thick (mm) x 8 = Kg. Per Sheet
Circle : D (mm) x D (mm) x Thick (mm) x 0.0000063 = Kg. Per PC