STEEL PIPE, BUTTWELD FITTINGS & FLANGE TO ASME STANDARDS

ASME B36.10 STEEL PIPE DIMENSIONS						APPROXIMATE MASS OF POPULAR SIZES											
STEEL PIPE DIMENSIONS						PIPE	BUTTWELD FITTINGS			A.S.M.E. FLANGES							
NOMINAL SIZE		Outside Diam.	Inside Diam.	Identification		Steel Pipe	90° LR Elbows	Tees Equal	Con. & Ecc. Red.	#150 (PN20)			#300 (PN50)			#600 (PN100)	#900 (PN150)
				Std.	Sch.					SOW/ SW Thrded	W/N	Blind	SOW/ SW Thrded	W/N	Blind	W/N	W/N
INCH	MM	mm	mm	X.S.	No.	kg/m	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea	kg/ea
1/2"	15	21.3	15.8	Std.	40	1.27	0.08	0.16	-	.45	.79	.57	.73	.91	.79	.91	2.00
			13.9	XS	80	1.62	0.10	0.21	-								
3/4"	20	26.7	20.9	Std.	40	1.69	0.08	0.21	0.07	.68	.86	.91	1.25	1.41	1.13	1.59	2.72
			18.9	XS	80	2.20	0.11	0.27	0.10								
1"	25	33.4	26.6	Std.	40	2.50	0.17	0.34	0.14	.95	1.09	1.09	1.36	1.81	1.77	1.86	3.86
			24.3	XS	80	3.24	0.21	0.43	0.18								
1-1/4"	32	42.2	35.1	Std.	40	3.39	0.28	0.64	0.18	1.13	1.41	1.25	2.04	2.27	2.68	2.72	4.54
			32.5	XS	80	4.47	0.39	0.75	0.23								
1-1/2"	40	48.3	40.9	Std.	40	4.05	0.39	0.95	0.27	1.36	1.81	1.70	2.81	3.06	2.83	3.74	6.35
			38.1	XS	80	5.41	0.50	1.13	0.32								
2"	50	60.3	52.5	Std.	40	5.44	0.68	1.45	0.41	2.22	2.83	2.77	3.13	3.74	3.52	4.65	10.89
			49.2	XS	80	7.48	1.00	1.72	0.54								
2-1/2"	65	73.0	62.7	Std.	40	8.63	1.36	2.45	0.68	3.82	4.42	4.04	4.54	5.56	5.44	6.44	16.33
			59.0	XS	80	11.41	1.82	2.95	0.91								
3"	80	88.9	77.9	Std.	40	11.29	2.18	3.45	0.91	4.08	5.22	5.44	6.12	7.37	7.26	8.50	14.51
			73.7	XS	80	15.27	2.86	4.30	1.27								
3-1/2"	90	101.6	90.1	Std.	40	13.57	3.05	4.5	1.36	4.99	5.44	6.35	7.71	9.53	9.98	12.25	-
			85.4	XS	80	18.63	4.1	5.9	1.81								
4"	100	114.3	102.3	Std.	40	16.07	4.2	5.7	1.59	5.94	7.48	7.37	9.53	11.79	11.79	17.24	23.13
			97.2	XS	80	22.32	5.7	7.3	2.18								
5"	125	141.3	128.2	Std.	40	21.77	6.8	9.1	2.7	6.12	9.53	9.07	12.70	15.42	15.88	30.84	39.01
			122.3	XS	80	30.97	10.0	11.8	3.8								
6"	150	168.3	154.1	Std.	40	28.26	10.9	13.6	3.9	8.16	11.34	12.70	16.33	19.96	20.87	34.02	49.90
			146.3	XS	80	42.56	16.3	19.0	5.4								
8"	200	219.1	202.7	Std.	40	42.55	21.8	25	5.9	12.70	19.05	21.77	25.40	32.21	38.10	52.16	84.82
			193.7	XS	80	64.64	33.1	33.5	8.6								
10"	250	273.1	254.5	Std.	40	60.31	38.6	41	10	17.24	25.40	31.75	35.38	44.00	53.34	90.36	121.56
			247.7	XS	60	81.55	52	54	14								
12"	300	323.9	304.8	Std.	-	73.88	57	57	15	27.22	38.10	45.36	50.80	64.41	86.18	101.60	168.74
			298.5	XS	-	97.46	75	77	20								
14"	350	355.6	336.6	Std.	30	81.33	73	73	28	35.38	51.26	58.97	74.39	84.37	107.05	157.40	254.92
			330.2	XS	-	107.39	97	93	37								
16"	400	406.4	387.4	Std.	30	93.27	98	91	35	42.18	63.50	77.11	101.60	111.58	145.15	209.11	310.71
			381.0	XS	40	123.30	130	120	46								
18"	450	457	438.2	Std.	-	105.16	120	135	40	52.62	68.04	102.51	126.10	138.35	181.89	217.27	419.12
			431.8	XS	-	139.15	165	190	53								
20"	500	508	489.0	Std.	20	117.15	150	168	61	65.32	81.65	123.38	149.69	174.63	231.33	312.98	527.98
			482.6	XS	30	155.12	200	245	82								
24"	600	610	590.6	Std.	20	141.12	220	240	77	91.63	118.84	203.21	222.26	247.21	342.92	443.16	680.39
			584.2	XS	-	187.06	280	350	95								
30"	750	762	743.0	Std.	-	176.84	332	388	107	142.88	163.29	326.59	367.41	421.84	680.39	589.67	975.22
			736.6	XS	20	234.67	440	484	143								
36"	900	914	895.4	Std.	-	212.56	481	588	129	217.72	235.87	510.29	544.31	589.67	1031.92	793.79	1564.89
			889.0	XS	20	282.27	638	731	172								
← DIMENSIONS →						← MASS IN KILOGRAMS - kg. →											

APPROXIMATE MASS PER UNIT FOR AUSTENITIC STAINLESS STEEL PIPE AND FITTINGS CAN BE OBTAINED BY APPLYING A FACTOR OF 1.015