



ANSI Schedule 40 Steel Pipes - Dimensions

Pipe Size (in)	Diameter (in)		Nominal Thickness (in)	Transverse Areas (in <sup>2</sup> )			Length of Pipe (ft per sq. foot of surface)		Volume (ft <sup>3</sup> /ft)	Weight		Number of Threads per inch of Screw
	External	Internal		External	Internal	Steel	External Surface (ft)	Internal Surface (ft)		(lb/ft)	(kg/m)	
1/8	0.405	0.27	0.07	0.13	0.06	0.07	9.43	14.2	0.0004	0.24	0.36	27
¼	0.54	0.36	0.09	0.23	0.1	0.13	7.07	10.49	0.0007	0.42	0.63	18
3/8	0.675	0.49	0.09	0.36	0.19	0.17	5.66	7.75	0.0013	0.57	0.84	18
½	0.84	0.62	0.11	0.55	0.3	0.25	4.55	6.14	0.0021	0.85	1.26	14
¾	1.05	0.82	0.11	0.87	0.53	0.33	3.64	4.64	0.0037	1.13	1.68	14
1	1.315	1.05	0.13	1.36	0.86	0.49	2.9	3.64	0.006	1.68	2.5	11 ½
1 ¼	1.66	1.38	0.14	2.16	1.5	0.67	2.3	2.77	0.0104	2.27	3.38	11 ½
1 ½	1.9	1.61	0.15	2.84	2.04	0.8	2.01	2.37	0.0141	2.72	4.04	11 ½
2	2.375	2.07	0.15	4.43	3.36	1.08	1.61	1.85	0.0233	3.65	5.43	11 ½
2 ½	2.875	2.47	0.2	6.49	4.79	1.7	1.33	1.55	0.0333	5.79	8.62	8
3	3.5	3.07	0.22	9.62	7.39	2.23	1.09	1.25	0.0513	7.58	11.27	8
3 ½	4	3.55	0.23	12.56	9.89	2.68	0.95	1.08	0.0687	9.11	13.56	8
4	4.5	4.03	0.24	15.9	12.73	3.17	0.85	0.95	0.0884	10.79	16.06	8
5	5.563	5.05	0.26	24.3	20	4.3	0.69	0.76	0.1389	14.61	21.74	8
6	6.625	6.07	0.28	34.47	28.89	5.58	0.58	0.63	0.2006	18.97	28.23	8
8	8.625	7.98	0.32	58.42	50.02	8.4	0.44	0.48	0.3552	28.55	42.49	8
10	10.75	10.02	0.37	90.76	78.85	11.9	0.36	0.38	0.5476	40.48	60.24	8
12	12.75	11.94	0.41	127.64	111.9	15.74	0.3	0.32	0.7763	53.6	79.77	8
14	14	13.13	0.44	153.94	135.3	18.64	0.27	0.28	0.9354	63	93.75	8
16	16	15	0.5	201.05	176.7	24.35	0.24	0.25	1.223	78	116.08	8
18	18	16.88	0.56	254.85	224	30.85	0.21	0.23	1.555	105	156.26	8
20	20	18.81	0.59	314.15	278	36.15	0.19	0.2	1.926	123	183.05	8
24	24	22.63	0.69	452.4	402.1	50.3	0.16	0.17	2.793	171	254.48	8

ASTM A53 pipe - also referred to as ASME SA53 pipe - is intended for mechanical and pressure applications. Can be used in steam, water, gas and air lines. Suitable for welding and forming like coiling, bending and flanging.



ANSI Schedule 80 Steel Pipes - Dimensions

Pipe Size (in)	Diameter (in)		Nominal Thickness (in)	Transverse Areas (in <sup>2</sup> )			Length of Pipe (per sq. foot of)		Volume (ft <sup>3</sup> /ft)	Weight		Number of Threads per inch of Screw
	External	Internal		External	Internal	Steel	External Surface (ft)	Internal Surface (ft )		lb/ft	kg/m	
1/8	0.41	0.22	0.1	0.13	0.04	0.09	9.43	17.75	0.0003	0.31	0.47	27
1/4	0.54	0.3	0.12	0.23	0.07	0.16	7.07	12.65	0.0005	0.54	0.8	18
3/8	0.68	0.42	0.13	0.36	0.14	0.22	5.66	9.03	0.001	0.74	1.1	18
1/2	0.84	0.55	0.15	0.55	0.23	0.32	4.55	7	0.0016	1	1.49	14
3/4	1.05	0.74	0.15	0.87	0.43	0.43	3.64	5.15	0.003	1.47	2.19	14
1	1.32	0.96	0.18	1.36	0.72	0.64	2.9	4	0.005	2.17	3.23	11 1/2
1 1/4	1.66	1.28	0.19	2.16	1.28	0.88	2.3	2.99	0.0089	3	4.46	11 1/2
1 1/2	1.9	1.5	0.2	2.84	1.77	1.07	2.01	2.54	0.0123	3.65	5.43	11 1/2
2	2.38	1.94	0.22	4.43	2.95	1.48	1.61	1.97	0.0205	5.02	7.47	11 1/2
2 1/2	2.88	2.32	0.28	6.49	4.24	2.25	1.33	1.65	0.0294	7.66	11.4	8
3	3.5	2.9	0.3	9.62	6.61	3.02	1.09	1.32	0.0459	10.3	15.33	8
3 1/2	4	3.36	0.32	12.56	8.89	3.68	0.95	1.14	0.0617	12.5	18.6	8
4	4.5	3.83	0.34	15.9	11.5	4.41	0.85	1	0.08	14.9	22.17	8
5	5.56	4.81	0.38	24.3	18.19	6.11	0.69	0.79	0.1263	20.8	30.95	8
6	6.63	5.76	0.43	34.47	26.07	8.3	0.58	0.67	0.181	28.6	42.56	8
8	8.63	7.63	0.5	58.42	45.66	12.76	0.44	0.5	0.3171	43.4	64.59	8
10	10.75	9.56	0.59	90.76	71.84	18.92	0.36	0.4	0.4989	64.4	95.84	8
12	12.75	11.38	0.69	127.64	101.64	26	0.3	0.34	0.7058	88.6	131.85	
14	14	12.5	0.75	153.94	122.72	31.22	0.27	0.31	0.8522	107	159.23	
16	16	14.31	0.84	201.05	160.92	40.13	0.24	0.26	1.117	137	203.88	
18	18	16.13	0.94	254.85	204.24	50.61	0.21	0.24	1.418	171	254.48	
20	20	17.94	1.03	314.15	252.72	61.43	0.19	0.21	1.755	209	311.03	
24	24	21.56	1.22	452.4	365.22	87.18	0.16	0.17	2.536	297	441.99	

ASTM A53 pipe - also referred to as ASME SA53 pipe - is intended for mechanical and pressure applications. Can be used in steam, water, gas and air lines. Suitable for welding and forming like coiling, bending and flanging.

$1 \text{ in}^2 = 645.2 \text{ mm}^2 = 6.452 \text{ cm}^2 = 6.452 \times 10^{-4} \text{ m}^2$   
 $1 \text{ ft (foot)} = 0.3048 \text{ m}$