

Dimensions of Seamless and Welded Pipe

ANSI B36.10 API Std. 5L

Nominal Wall Thickness for all Schedules with - 12.5% Values

Nom Size	Nom. OD	Sch.5		Sch.10		Gas Dist.		Sch.20	
		ID	Wall	ID	Wall	ID	Wall	ID	Wall
1/8	.405	...	...	...	...	...	...	...	...
1/4	.540	...	...	...	...	...	...	...	...
3/8	.675	...	...	...	...	...	...	...	...
1/2	.840	...	...	...	...	...	...	...	...
3/4	1.050	.920	.065[.057]	.884	.083[.073]	...	...	...	...
1	1.315	1.185	.065[.057]	1.097	.109[.095]	...	...	...	...
1 1/4	1.660	1.530	.065[.057]	1.442	.109[.095]	...	...	...	...
1 1/2	1.900	1.770	.065[.057]	1.682	.109[.095]	...	...	...	...
2	2.375	2.245	.065[.057]	2.157	.109[.095]	...	...	...	...
2 1/2	2.875	2.709	.083[.073]	2.635	.120[.105]	...	...	...	...
3	3.500	3.334	.083[.073]	3.260	.120[.105]	...	...	...	...
3 1/2	4.000	3.834	.083[.073]	3.760	.120[.105]	...	...	...	...
4	4.500	4.334	.083[.073]	4.260	.120[.105]	4.124	.188[.164]	...	...
5	5.563	5.345	.109[.095]	5.295	.134[.117]	...	...	...	...
6	6.625	6.407	.109[.095]	6.357	.134[.117]	6.187	.219[.192]	...	...
8	8.625	8.407	.109[.095]	8.329	.148[.130]	8.187	.219[.192]	8.125	.250[.219]
10	10.750	10.482	.134[.117]	10.420	.165[.144]	10.312	.219[.192]	10.250	.250[.219]
12	12.750	12.438	.156[.136]	12.390	.180[.158]	12.250	.250[.192]	12.250	.250[.219]
14	14.000	...	...	13.500	.250[.219]	13.500	.250[.192]	13.376	.250[.219]
16	16.000	...	...	15.500	.250[.219]	15.500	.250[.192]	15.376	.312[.273]
18	18.000	...	...	17.500	.250[.219]	17.500	.250[.192]	17.376	.312[.273]
20	20.000	...	...	19.500	.250[.219]	19.500	.250[.192]	...	STD
22	22.000	...	...	21.500	.250[.219]	...	...	...	STD
24	24.000	...	...	23.500	.250[.219]	23.500	.250[.192]	...	STD
26	26.000	...	...	25.376	.312[.273]	...	...	...	XS
28	28.000	...	...	27.376	.312[.273]	...	...	...	XS
30	30.000	...	...	29.376	.312[.273]	...	...	...	XS
32	32.000	...	...	31.376	.312[.273]	...	...	...	XS
34	34.000	...	...	33.376	.312[.273]	...	...	...	XS
36	36.000	...	...	35.376	.312[.273]	...	...	...	XS
38	38.000	...	...	...	...	...	...	...	...
40	40.000	...	...	...	...	...	...	...	...
42	42.000	...	...	...	...	...	...	...	...
44	44.000	...	...	...	...	...	...	...	...
46	46.000	...	...	...	...	...	...	...	...
48	48.000	...	...	...	...	...	...	...	...

Number in [] in Wall Thickness Column is Minimum Wall.

STD.		Sch 30		Sch. 40		XS		Nom. Size
ID	Wall	ID	Wall	ID	Wall	ID	Wall	
.269	.068[.060]	...	...	STD	...	.215	.095[.083]	1/8
.364	.088[.077]	...	...	STD	...	.302	.119[.104]	1/4
.493	.091[.080]	...	...	STD	...	.423	.126[.110]	3/8
.622	.109[.096]	...	...	STD	...	.546	.147[.129]	1/2
.824	.113[.099]	...	...	STD	...	.742	.154[.135]	3/4
1.049	.133[.116]	...	...	STD	...	.957	.179[.157]	1
1.380	.140[.122]	...	...	STD	...	1.278	.191[.167]	1 1/4
1.610	.145[.127]	...	...	STD	...	1.500	.200[.175]	1 1/2
2.067	.154[.135]	...	...	STD	...	1.939	.218[.191]	2
2.469	.203[.178]	...	...	STD	...	2.323	.276[.242]	2 1/2
3.068	.216[.189]	...	...	STD	...	2.900	.300[.262]	3
3.548	.226[.198]	...	...	STD	...	3.364	.318[.278]	3 1/2
4.026	.237[.207]	...	...	STD	...	3.826	.337[.295]	4
5.047	.258[.226]	...	...	STD	...	4.813	.375[.328]	5
6.065	.280[.245]	...	...	STD	...	5.761	.432[.378]	6
7.981	.322[.282]	8.071	.277[.242]	STD	...	7.625	.500[.438]	8
10.020	.365[.319]	10.136	.307[.269]	STD	...	9.750	.500[.438]	10
12.000	.315[.328]	12.090	.330[.289]	11.938	.406[.355]	11.750	.500[.438]	12
13.250	.375[.328]	STD	...	13.124	.438[.383]	13.000	.500[.438]	14
15.250	.375[.328]	STD	...	XS	...	15.000	.500[.438]	16
17.250	.375[.328]	17.124	.438[.383]	16.876	.562[.492]	17.000	.500[.438]	18
19.250	.375[.328]	XS	...	18.812	.594[.519]	19.000	.500[.438]	20
21.250	.375[.328]	XS	...	...	...	21.000	.500[.438]	22
23.250	.375[.328]	22.876	.562[.492]	22.624	.688[.602]	23.000	.500[.438]	24
25.250	.375[.328]	...	...	...	...	25.000	.500[.438]	26
27.250	.375[.328]	26.750	.625[.547]	...	...	27.000	.500[.438]	28
29.250	.375[.328]	28.750	.625[.547]	...	...	29.000	.500[.438]	30
31.250	.375[.328]	30.750	.625[.547]	30.624	.688[.602]	31.000	.500[.438]	32
33.250	.375[.328]	32.750	.625[.547]	32.624	.688[.602]	33.000	.500[.438]	34
35.250	.375[.328]	34.750	.625[.547]	34.500	.750[.656]	35.000	.500[.438]	36
37.250	.375[.328]	...	...	...	...	...	.500[.438]	38
39.250	.375[.328]	...	...	...	...	...	.500[.438]	40
41.250	.375[.328]	40.750	.625[.547]	40.500	.750[.656]	41.000	.500[.438]	42
43.250	.375[.328]	...	...	...	...	43.000	.500[.438]	44
45.250	.375[.328]	...	...	...	...	45.000	.500[.438]	46
47.250	.375[.328]	...	...	...	...	47.000	.500[.438]	48

Dimensions of Seamless and Welded Pipe (cont.)

ANSI B36.10 API Std. 5L

Nominal Wall Thickness for all Schedules with - 12.5% Values

Nom. Size	Nom. OD	Sch. 60		Sch. 80		Sch. 100		Sch. 120	
		ID	Wall	ID	Wall	ID	Wall	ID	Wall
1/8	.405	...	...	XS		...	...	...	...
1/4	.540	...	...	XS		...	...	...	...
3/8	.675	...	...	XS		...	...	...	...
1/2	.840	...	...	XS		...	...	...	...
3/4	1.050	...	...	XS		...	...	...	...
1	1.315	...	...	XS		...	...	...	...
1 1/4	1.660	...	...	XS		...	...	...	...
1 1/2	1.900	...	...	XS		...	...	...	...
2	2.375	...	...	XS		...	...	...	...
2 1/2	2.875	...	...	XS		...	...	...	...
3	3.500	...	...	XS		...	...	...	...
3 1/2	4.000	...	...	XS		...	...	...	...
4	4.500	...	...	XS		...	...	3.624	438[.383]
5	5.563	...	...	XS		...	...	4.563	500[.438]
6	6.625	...	...	XS		...	...	5.501	562[.492]
8	8.625	7.813	.406[.355]	XS		7.437	.594 [.520]	7.187	.719[.629]
10	10.750	XS		9.562	.594[.520]	.9312	.719[.629]	9.062	.844[.739]
12	12.750	11.626	.562[.492]	11.374	.688[.602]	11.062	.844[.738]	10.750	1.000[.875]
14	14.000	12.812	.594[.520]	12.500	.750[.656]	12.124	.938[.821]	11.812	1.094[.957]
16	16.000	14.688	.656[.574]	14.312	.844[.739]	13.938	1.031[.902]	13.562	1.219[1.067]
18	18.000	16.500	.750[.656]	16.124	.938[.821]	15.688	1.156[.984]	15.250	1.375[1.203]
20	20.000	18.376	.812[.711]	17.938	1.031[.902]	17.438	1.281[1.121]	17.000	1.500[1.312]
22	22.000	20.250	.875[.766]	19.750	1.125[.984]	19.250	1.375[1.203]	18.750	1.625[1.422]
24	24.000	22.062	.969[.848]	21.562	1.219[1.067]	20.938	1.531[1.340]	20.376	1.812[1.586]
26	26.000					24.500	.750[202.3]	24.000	1.000[267.0]
28	28.000					26.500	.750[218.3]	26.000	1.000[288.4]
30	30.000					28.500	.750[234.3]	28.000	1.000[309.7]
32	32.000					30.500	.750[250.3]	30.000	1.000[331.1]
34	34.000					32.500	.750[266.3]	32.000	1.000[352.4]
36	36.000					34.250	.875[328.2]	34.000	1.000[373.8]
38	38.000								
40	40.000								
42	42.000					40.500	.750[330.4]	40.000	1.000[437.9]
44	44.000								
46	46.000								
48	48.000					46.500	.750[378.5]	46.000	1.000[502.0]

Sch. 140		Sch. 160		XXS		API		Nom Size
ID	Wall	ID	Wall	ID	Wall	ID	Wall	
...	...	...	...	...	...	...	...	1/8
...	...	...	...	...	...	...	...	1/4
...	...	...	...	...	...	...	...	3/8
...	...	.464	.188[.165]	.252	.294[.257]	...	...	1/2
...	...	.612	.219[.192]	.434	.308[.270]	...	...	3/4
...	...	.815	.250[.219]	.599	.358[.313]	...	...	1
...	...	1.160	.250[.219]	.896	.382[.334]	...	...	1 1/4
...	...	1.338	.281[.246]	1.100	.400[.350]	...	...	1 1/2
...	...	1.687	.344[.301]	1.503	.436[.382]	...	...	2
...	...	2.125	.375[.328]	1.771	.552[.483]	...	...	2 1/2
...	...	2.624	.438[.383]	2.300	.600[.525]	3.250	.125[.109]	3
...	...	...	...	2.728*	.636[.557]*	...	...	3 1/2
...	...	3.438	.531[.465]	3.152	.674[.590]	4.250	.125[.109]	4
...	...	4.313	.625[.547]	4.063	.750[.656]	...	...	5
...	...	5.187	.719[.629]	4.897	.864[.756]	6.313**	.156[.136]	6
10.020	.216[.189]	6.813	.906[.793]	6.875	.875[.766]	8.281**	.172[.150]	8
12.000	.266[.198]	8.500	1.125[.984]	SCH. 140		10.374	.188[.164]	10
13.250	.237[.207]	10.126	1.312[1.148]	SCH. 120		12.344	.203[.178]	12
15.250	.258[.226]	11.188	1.406[1.230]	...	...	...	...	14
17.250	.280[.245]	12.812	1.594[1.395]	...	...	...	...	16
19.250	.322[.282]	14.438	1.781[1.558]	...	...	...	...	18
21.250	.365[.319]	16.062	1.969[1.723]	...	...	...	...	20
23.250	.375[.328]	17.750	2.125[1.859]	...	...	...	...	22
25.250	.375[.328]	19.312	2.344[2.051]	...	...	...	...	24
23.500	1.250[330.4]	23.000	1.500[392.5]	22.000	2.000[512.6]	...	...	26
25.500	1.250[357.1]	25.000	1.500[424.5]	24.000	2.000[555.4]	...	...	28
27.500	1.250[383.8]	27.000	1.500[456.6]	26.000	2.000[598.1]	...	...	30
29.500	1.250[410.5]	29.000	1.500[488.6]	28.000	2.000[640.8]	...	...	32
31.500	1.250[437.2]	31.000	1.500[520.7]	30.000	2.000[683.5]	...	...	34
33.500	1.250[463.9]	33.000	1.500[552.7]	32.000	2.000[726.2]	...	...	36
								38
								40
39.500	1.250[544.0]	39.000	1.500[648.8]	38.000	2.000[854.4]	...	...	42
								44
								46
45.500	1.250[624.1]	45.000	1.500[744.9]	44.000	2.000[982.6]	...	...	48

*Not in ANSI B36.10 **Not in API Common Non-Schedule Walls noted in red.