

Dimensional Information for Piping & Tubing

Standard Pipe / Tube Size

Schedule 40 & 80 Iron Pipe & PVC Schedule 5, 10, 40 & 80 Aluminum Schedule 5, 10, & 40 Stainless Steel			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
1/8	3	0.405	10.3
1/4	6	0.540	13.7
3/8	10	0.675	17.1
1/2	15	0.840	21.3
3/4	20	1.050	26.7
1	25	1.315	33.4
1-1/4	32	1.660	42.2
1-1/2	40	1.900	48.3
2	50	2.375	60.3
2-1/2	65	2.875	73.0
3	80	3.500	88.9
3-1/2	90	4.000	101.6
4	100	4.500	114.3
4-1/2	115	5.000	127.0
5	125	5.563	141.3
6	150	6.625	168.3
8	200	8.625	219.1
10	250	10.750	273.1
12	300	12.750	323.9
<i>All sizes over 12" Nominal pipe Size = O.D.</i>			

Standard Plastic Pipe			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
1/2	15	0.600	15.2
3/4	20	0.856	21.7
1	25	1.140	29.0
1-1/4	32	1.420	36.1
1-1/2	40	1.730	43.9
2	50	2.250	57.2
3	80	3.250	82.6
4	100	4.100	104.1
6	150	6.220	158.0

Electro Mechanical Tubing (EMT)			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
3/8	10	0.577	14.7
1/2	15	0.706	17.9
3/4	20	0.922	23.4
1	25	1.163	29.5
1-1/4	32	1.51	38.4
1-1/2	40	1.74	44.2
2	50	2.197	55.8
<i>EMT sizes over 2 are the same as Schedule 40 iron pipe</i>			

Outside Diameters of Pipe / Tube

Outside Diameters of Standard Copper Pipe			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
1/4	6	0.375	9.5
3/8	10	0.500	12.7
1/2	15	0.625	15.9
5/8	17	0.750	19.1
3/4	20	0.875	22.2
1	25	1.125	28.6
1-1/4	32	1.375	34.9
1-1/2	40	1.625	41.3
2	50	2.125	54.0
2-1/2	65	2.625	66.7
3	80	3.125	79.4
3-1/2	90	3.625	92.1
4	100	4.125	104.8
5	125	5.125	130.2
6	150	6.125	155.6
7	175	7.125	181.0
8	200	8.125	206.4

Outside Diameters of SDR-35 & DR-28 Gravity Sewer Pipe		
Nominal Pipe Size	O.D.	
	in	mm
4"	4.22	107.2
6"	6.28	159.5
8"	8.40	213.4
10"	10.50	266.7
12"	12.50	317.5
15"	15.30	388.6
18"	18.70	475.0
21"	22.05	560.1
24"	24.80	629.9
27"	27.95	709.9
30"	32.00	812.8

Outside Diameters of Glass Pipe			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
1/2	15	0.750	19.1
3/4	20	1.000	25.4
1	25	1.312	33.3
1-1/2	40	1.844	46.8
2	50	2.344	59.5
3	80	3.406	86.5
4	100	4.530	115.1
6	150	6.656	169.1
<i>Glass pipe has the same O.D. for both regular & heavy schedule</i>			

Outside Diameters of Extra Heavy Cast Iron Soil Pipe		
Nominal Pipe Size	O.D.	
	in	mm
2"	2.38	60.5
3"	3.50	88.9
4"	4.50	114.3
5"	5.50	139.7
6"	6.50	165.1
8"	8.62	218.9
10"	10.75	273.1
12"	12.75	323.9
15"	15.88	403.4

Outside Diameters of AWWA-C900, C905; PVC Water Pipe Ductile Iron Pipe Centrifugally Spun Cast Iron Pipe		
Nominal Pipe Size	O.D.	
	in	mm
2"	2.50	63.5
2-1/4"	2.75	69.8
3"	3.96	100.6
4"	4.80	121.9
6"	6.90	175.3
8"	9.05	229.9
10"	11.10	281.9
12"	13.20	335.3
14"	15.30	388.6
16"	17.40	442.0
18"	19.50	495.3
20"	21.60	548.6
24"	25.80	655.3
30"	32.00	812.8
36"	38.30	972.8
42"	44.50	1130.3
48"	50.80	1280.3

Outside Diameters of Service Weight Cast iron Soil Pipe		
Nominal Pipe Size	O.D.	
	in	mm
2"	2.30	58.4
3"	3.30	83.8
4"	4.30	109.2
5"	5.30	134.6
6"	6.30	160.0
8"	8.38	212.9
10"	10.50	266.7
12"	12.50	317.5
15"	15.62	396.7