

Iron Pipe Size (IPS) Water Pipe

ASTM D 2241 1/2" – 12", ASTM D 1785 all

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
1/2	0.840	21.3	20
3/4	1.050	26.7	25
1	1.315	33.4	32
1 1/4	1.660	42.2	40
1 1/2	1.900	48.3	50
2	2.375	60.3	63
2 1/2	2.875	73.0	75
3	3.500	88.9	90
4	4.500	114.3	110
5	5.563	141.3	140
6	6.625	168.3	160
8	8.625	219.1	225
10	10.750	273.1	280
12	12.750	323.9	315

Cast - Iron Size (CIPS) Water Pipe

AWWA C900 4" – 12", AWWA C905 14" – 24"

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
4	4.800	121.9	125
6	6.900	175.3	160
8	9.050	229.9	225
10	11.100	281.9	280
12	13.200	335.3	315
14	15.300	388.6	400
16	17.400	442.0	450
18	19.500	495.3	500
20	21.600	548.6	500
24	25.800	655.3	630

Irrigation Pipe Size (IP) ASAE 376 100 ft Head

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
18	18.360	466.3	450
20	20.400	518.2	500

Plastic Irrigation Pipe Size (PIP)

SCS 430DD, ASAE 376, and/or ASTM D 2241

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
6	6.140	156.0	160
8	8.160	207.3	200
10	10.200	259.1	250
12	12.240	310.9	315
15	15.300	388.6	400
18	18.701	475.0	450
21	22.047	560.0	500
24	24.803	630.0	630

Sewer Pipe

ASTM D 2729 3", ASTM D 3034 4"-15", ASTM F 679 18"-24"

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
3	3.250	82.6	75
4	4.215	107.1	110
6	6.275	159.4	160
8	8.400	213.4	225
10	10.500	266.7	280
12	12.500	317.5	315
15	15.300	388.6	400
18	18.701	475.0	450
21	22.047	560.0	500
24	24.803	630.0	630

Electrical Conduit and Utility Duct

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
1/2	0.840	21.3	20
3/4	1.050	26.7	25
1	1.315	33.4	32
1 1/4	1.660	42.2	40
1 1/2	1.900	48.3	50
2	2.375	60.3	63
2 1/2	2.875	73.0	75
3	3.500	88.9	90
3 1/2	4.000	101.6	110
4 C-Duct	4.350	110.5	110
4	4.500	114.3	110
5	5.563	141.3	140
6	6.625	168.3	160

Stormdrain Pipe

ASTM F 679, D 3034, SCS 430DD, ASAE 376, and/or ASTM D 2241

Nominal Size (inches)	Average OD (inches)	Average OD (mm)	Closest Metric OD (mm)
6	6.275	159.4	160
8	8.400	213.4	225
10	10.500	266.7	280
12	12.500	317.5	315
15	15.300	388.6	400
18	18.701	475.0	450
21	22.047	560.0	500
24	24.803	630.0	630