

# Pipe Dimensions

## PIP-Plastic Irrigation Pipe Dimensions

Size	O.D.	LOW HEAD SCS 432E					
		SDR-100 50 ft head			SDR-93 100 ft head		
		Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft
4-in.	4.130	0.065	4.000	0.653	—	—	—
6-in.	6.140	0.070	6.000	1.469	—	—	—
8-in.	8.160	0.080	8.000	2.611	0.088	7.984	2.601
10-in.	10.200	0.100	10.000	4.080	0.110	9.980	4.064
12-in.	12.240	0.120	12.000	5.875	0.132	11.976	5.852
15-in.	15.300	0.150	15.000	9.180	0.165	14.970	9.143
18-in.	18.360	0.180	18.000	13.219	0.198	17.964	13.166
20-in.	20.400	0.200	20.000	16.320	0.219	19.962	16.258

Size	O.D.	HIGH HEAD SCS432D								
		SDR-51 80 psi			SDR-41 100 psi			SDR-32.5 125 psi		
		Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft
4-in.	4.130	—	—	—	0.101	3.928	0.630	0.127	3.876	0.613
6-in.	6.140	0.120	5.900	1.420	0.150	5.840	1.392	0.189	5.762	1.355
8-in.	8.160	0.160	7.840	2.508	0.199	7.762	2.458	0.251	7.658	2.393
10-in.	10.200	0.200	9.800	3.918	0.240	9.720	3.855	0.314	9.572	3.738
12-in.	12.240	0.240	11.760	5.643	0.299	11.642	5.530	0.377	11.486	5.383
15-in.	15.300	0.300	14.700	8.816	0.373	14.554	8.642	—	—	—
18-in.	18.360	0.360	17.640	12.696	0.448	17.464	12.444	—	—	—
20-in.	20.400	0.400	19.600	15.674	0.498	19.404	15.362	—	—	—

## Sewer Pipe Dimensions

Size	O.D.	PSP ASTM D-3033					
		SDR-41			SDR-35		
		Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft
4-in.	4.215	0.125	3.965	0.641	0.125	3.965	0.641
6-in.	6.275	0.153	5.969	1.454	0.180	5.915	1.427
8-in.	8.160	0.199	7.762	2.458	0.233	7.694	2.415
9-in.	9.440	0.230	8.980	—	—	—	—
10-in.	10.200	0.249	9.702	3.840	0.291	9.618	3.774
12-in.	12.240	0.299	11.642	5.530	0.350	11.540	5.433
15-in.	15.300	0.375	14.550	8.637	0.437	14.426	8.491

Size	O.D.	PSP ASTM D-3034					
		SDR-42			SDR-35		
		Wall	I.D.	Gal./ft	Wall	I.D.	Gal./Ft
4-in.	4.215	—	—	—	0.125	3.965	0.641
6-in.	6.275	—	—	—	0.180	5.915	1.427
8-in.	8.400	0.200	8.000	2.611	0.240	7.920	2.559
9-in.	9.440	0.225	8.990	3.297	—	—	—
10-in.	10.500	0.250	10.000	4.080	0.300	9.900	3.999
12-in.	12.500	0.300	11.900	5.778	0.360	11.780	5.662
15-in.	—	—	—	—	—	—	—
18-in.	18.700	—	—	—	0.536	17.628	12.678
21-in.	22.047	—	—	—	0.632	20.783	17.623
24-in.	24.803	—	—	—	0.711	23.381	22.304
27-in.	27.953	—	—	—	0.801	26.351	28.331

## AWWA C-900 Water Pipe Dimensions

Size	O.D.	CAST IRON PIPE SIZE								
		DR-25 CLASS 100			DR-18 CLASS 150			DR-14 CLASS 200		
		Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft
4-in.	4.800	0.192	4.416	0.796	0.267	4.266	0.743	0.343	4.114	0.691
6-in.	6.900	0.276	6.348	1.644	0.383	6.134	1.535	0.493	5.914	1.427
8-in.	9.050	0.362	8.326	2.828	0.503	8.044	2.640	0.646	7.758	2.456
10-in.	11.100	0.444	10.212	4.255	0.617	9.866	3.971	0.793	9.514	3.693
12-in.	13.200	0.528	12.144	6.017	0.733	11.734	5.618	0.943	11.314	5.223

Size	O.D.	IRON PIPE SIZE								
		DR-25 CLASS 100			DR-18 CLASS 150			DR-14 CLASS 200		
		Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft	Wall	I.D.	Gal./Ft
4-in.	4.500	0.180	4.140	0.699	0.250	4.000	0.653	0.321	3.858	0.607
6-in.	6.625	0.265	6.095	1.516	0.368	5.889	1.415	0.473	5.679	1.316
8-in.	8.625	0.345	7.935	2.569	0.479	7.667	2.398	0.616	7.393	2.230
10-in.	10.750	0.430	9.890	3.991	0.597	9.556	3.726	0.768	7.393	3.464
12-in.	12.750	0.510	11.730	5.614	0.708	11.334	5.241	0.911	10.928	4.872

**IPS Iron Pipe Size Dimensions**

ASTM D-2241												ASTM D-1785												
Size	SDR-64 Class 63		SDR-41 Class 100		SDR-32.5 Class 125		SDR-24 Class 160		SDR-21 Class 200		SDR-13.5 Class 315		Schedule 40		Schedule 80									
	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.								
1/8-in.	-	-	-	-	-	-	-	-	-	-	-	-	0.068	0.269	0.003	0.095	0.215	0.002						
1/4-in.	-	-	-	-	-	-	-	-	-	-	-	-	0.088	0.364	0.005	0.119	0.302	0.004						
3/8-in.	-	-	-	-	-	-	-	-	-	-	-	-	0.091	0.493	0.010	0.126	0.423	0.007						
1/2-in.	-	-	-	-	-	-	-	-	-	-	-	-	0.109	0.622	0.016	0.147	0.546	0.012						
3/4-in.	-	-	-	-	-	-	-	-	-	-	-	-	0.113	0.824	0.028	0.154	0.742	0.022						
1-in.	-	-	-	-	-	-	-	0.060	1.195	0.058	0.063	1.189	0.058	0.097	1.121	0.051	0.133	1.049	0.045	0.179	0.957	0.037		
1 1/4-in.	-	-	-	-	-	-	-	0.064	1.532	0.096	0.079	1.502	0.092	0.123	1.414	0.082	0.140	1.380	0.078	0.191	1.278	0.067		
1 1/2-in.	-	-	-	-	-	-	-	0.073	1.754	0.126	0.090	1.720	0.121	0.141	1.618	0.107	0.145	1.610	0.106	0.200	1.500	0.092		
2-in.	-	-	-	-	-	-	-	0.091	2.193	0.196	0.113	2.149	0.188	0.176	2.023	0.167	0.154	2.067	0.174	0.218	1.939	0.153		
2 1/2-in.	-	-	-	-	-	-	-	0.110	2.655	0.288	0.137	2.601	0.276	0.213	2.449	0.245	0.203	2.469	0.249	0.276	2.323	0.220		
3-in.	-	-	-	-	-	-	-	0.108	3.284	0.440	0.135	3.230	0.426	0.167	3.166	0.409	0.216	3.068	0.384	0.300	2.900	0.343		
3 1/2-in.	-	-	-	-	-	-	-	0.098	3.804	0.590	0.123	3.754	0.575	0.154	3.692	0.556	0.190	3.548	0.514	0.318	3.364	0.462		
4-in.	-	-	-	-	-	-	-	0.110	4.280	0.747	0.138	4.224	0.728	0.173	4.154	0.704	0.214	4.026	0.661	0.337	3.826	0.597		
5-in.	-	-	-	-	-	-	-	0.136	5.291	1.142	0.171	5.221	1.112	0.214	5.135	1.076	0.265	5.047	1.039	0.375	4.813	0.945		
6-in.	0.104	6.400	1.671	0.162	6.301	1.620	0.204	6.217	1.577	0.255	6.115	1.526	0.316	5.993	1.465	0.491	5.643	1.299	0.280	6.065	1.501	0.432	5.761	1.354
8-in.	0.135	8.330	2.831	0.210	8.205	2.747	0.265	8.095	2.674	0.332	7.961	2.586	0.410	7.805	2.485	-	-	-	0.322	7.981	2.599	0.500	7.625	2.372
10-in.	0.168	10.390	4.404	0.262	10.226	4.266	0.331	10.088	4.152	0.413	9.924	4.018	0.511	9.728	3.861	-	-	-	0.365	10.020	4.096	0.593	9.564	3.732
12-in.	0.199	12.320	6.192	0.311	12.128	6.001	0.392	11.966	5.842	0.490	11.770	5.652	0.606	11.538	5.432	-	-	-	0.406	11.938	5.815	0.687	11.376	5.280