



Ductile Iron Pipe Size (DIPS) and Dimension Data

Pressure Ratings are calculated using 0.63 design factor for HDS at 73°F as listed in PPI TR-4 for PE 4710 materials. HDPE can accommodate up to 1.5 times the pipe pressure rating for a recurring surge and up to 2.0 times the pipe pressure rating for an occasional surge. Temperature, Chemical, and Environmental use considerations may require use of additional design factors.

Pressure Rating		335 PSI DR 7			250 PSI DR 9			200 PSI DR 11			160 PSI DR 13.5			Nominal Pipe Size
Nominal Pipe Size	DIPS OD (in)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Nominal Pipe Size
4"	4.800	0.686	3.346	3.871	0.533	3.670	3.130	0.436	3.876	2.623	0.356	4.045	2.180	4"
6"	6.900	0.986	4.810	7.999	0.767	5.274	6.468	0.627	5.571	5.421	0.511	5.817	4.504	6"
8"	9.050	1.293	6.309	13.760	1.006	6.917	11.127	0.823	7.305	9.325	0.670	7.630	7.748	8"
10"	11.100	1.586	7.738	20.700	1.233	8.486	16.739	1.009	8.961	14.028	0.822	9.357	11.656	10"
12"	13.200	1.886	9.202	29.274	1.467	10.090	23.671	1.200	10.656	19.838	0.978	11.127	16.483	12"
14"	15.300	2.186	10.666	39.329	1.700	11.696	31.802	1.391	12.351	26.652	1.133	12.898	22.145	14"
16"	17.400	2.486	12.130	50.866	1.933	13.302	41.132	1.582	14.046	34.470	1.289	14.667	28.641	16"
18"	19.500	2.786	13.594	63.885	2.167	14.906	51.659	1.773	15.741	43.292	1.444	16.439	35.972	18"
20"	21.600				2.400	16.512	63.385	1.964	17.436	53.119	1.600	18.208	44.137	20"
24"	25.800				2.867	19.722	90.431	2.345	20.829	75.785	1.911	21.749	62.970	24"
30"	32.000				3.555	24.462	139.116	2.909	25.833	116.585	2.370	26.976	96.871	30"
36"	38.300				4.256	29.278	199.285	3.482	30.919	167.009	2.837	32.286	138.769	36"

Pressure Rating		125 PSI DR 17			100 PSI DR 21			80 PSI DR 26			Nominal Pipe Size
Nominal Pipe Size	DIPS OD (in)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Nominal Pipe Size
4"	4.800	0.282	4.202	1.760	0.229	4.315	1.442				4"
6"	6.900	0.406	6.039	3.640	0.329	6.203	2.981	0.265	6.338	2.432	6"
8"	9.050	0.532	7.922	6.261	0.431	8.136	5.134	0.348	8.312	4.188	8"
10"	11.100	0.653	9.716	9.418	0.529	9.979	7.717	0.427	10.195	6.306	10"
12"	13.200	0.776	11.555	13.319	0.629	11.867	10.914	0.508	12.123	8.907	12"
14"	15.300	0.900	13.392	17.894	0.729	13.755	14.664	0.588	14.053	11.974	14"
16"	17.400	1.024	15.229	23.144	0.829	15.643	18.967	0.699	15.982	15.473	16"
18"	19.500	1.147	17.068	29.067	0.929	17.531	23.822	0.750	17.910	19.443	18"
20"	21.600	1.271	18.905	35.665	1.029	19.419	29.230	0.831	19.838	23.866	20"
24"	25.800	1.518	22.582	50.883	1.229	23.195	41.704	0.992	23.697	34.040	24"
30"	32.000	1.882	28.010	78.277	1.524	28.769	64.160	1.231	29.390	52.374	30"
36"	38.300	2.253	33.524	112.132	1.824	34.434	91.923				36"

This size and dimension chart is intended for reference purposes. It should not be used in place of the advice from a licensed Professional Engineer. Pipe weights are calculated in accordance with PPI TR-7. Average inside diameter is calculated using DIPS OD and Minimum wall plus 6% for use in estimating fluid flows. Actual ID will vary. When designing components to fit the pipe ID, refer to pipe dimension and tolerances in the applicable pipe manufacturing specification.

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