DUCTILE IRON PIPE SIZE (DIPS) & DIMENSION DATA FOR HDPE PIPING SYSTEM APPLICATIONS

PE4710 (PE3408)

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 7.0)			250 psi (DR 9.0)			200 psi (DR 11.0)			160 psi (DR 13.5)			
PIPE SIZE	DIPS OD (IN)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	PIPE SIZE
4"	4.800	0.686	3.346	3.87	0.533	3.670	3.13	0.436	3.876	2.62	0.356	4.045	2.18	4"
6"	6.900	0.986	4.810	8.00	0.767	5.274	6.47	0.627	5.571	5.42	0.511	5.817	4.50	6"
8"	9.050	1.293	6.309	13.76	1.006	6.917	11.13	0.823	7.305	9.32	0.670	7.630	7.75	8"
10"	11.100	1.586	7.738	20.70	1.233	8.486	16.74	1.009	8.961	14.03	0.822	9.357	11.66	10"
12"	13.200	1.886	9.202	29.27	1.467	10.090	23.67	1.200	10.656	19.84	0.978	11.127	16.48	12"
14"	15.300	2.186	10.666	39.33	1.700	11.696	31.80	1.391	12.351	26.65	1.133	12.898	22.15	14"
16"	17.400	2.486	12.130	50.87	1.933	13.302	41.13	1.582	14.046	34.47	1.289	14.667	28.64	16"
18"	19.500	2.786	13.594	63.89	2.167	14.906	51.66	1.773	15.741	43.29	1.444	16.439	35.97	18"
20"	21.600				2.400	16.512	63.38	1.964	17.436	53.12	1.600	18.208	44.14	20"
24"	25.800				2.867	19.722	90.43	2.345	20.829	75.78	1.911	21.749	62.97	24"
30"	32.000							2.909	25.833	116.58	2.370	26.976	96.87	30"
36"	38.300							3.482	30.918	167.01	2.837	32.286	138.77	36"
42"	44.500										3.296	37.512	187.33	42"

Pressure Rating		125 psi (DR 17.0)			100 psi (DR 21.0)			80 psi (DR 26.0)			63 psi (DR 32.5)			
PIPE SIZE	DIPS OD (IN)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	PIPE SIZE
4"	4.800	0.282	4.202	1.76	0.229	4.315	1.45							4"
6"	6.900	0.406	6.039	3.64	0.329	6.203	2.99	0.265	6.338	2.43	0.212	6.451	1.96	6"
8"	9.050	0.532	7.922	6.26	0.431	8.136	5.13	0.348	8.312	4.19	0.278	8.461	3.37	8"
10"	11.100	0.653	9.716	9.42	0.529	9.979	7.73	0.427	10.195	6.30	0.342	10.375	5.09	10"
12"	13.200	0.776	11.555	13.31	0.629	11.867	10.93	0.508	12.123	8.91	0.406	12.339	7.19	12"
14"	15.300	0.900	13.392	17.89	0.729	13.755	14.68	0.588	14.053	11.96	0.471	14.301	9.66	14"
16"	17.400	1.024	15.229	23.15	0.829	15.643	18.98	0.669	15.982	15.48	0.535	16.266	12.48	16"
18"	19.500	1.147	17.068	29.07	0.929	17.531	23.84	0.750	17.910	19.44	0.600	18.228	15.69	18"
20"	21.600	1.271	18.905	35.68	1.029	19.419	29.25	0.831	19.838	23.86	0.665	20.190	19.26	20"
24"	25.800	1.518	22.582	50.89	1.229	23.195	41.73	0.992	23.697	34.03	0.794	24.117	27.46	24"
30"	32.000	1.882	28.010	78.26	1.524	28.769	64.18	1.231	29.390	52.37	0.985	29.912	42.26	30"
36"	38.300	2.253	33.524	112.13	1.824	34.433	91.93	1.473	35.177	75.00	1.178	35.803	60.49	36"
42"	44.500	2.618	38.950	151.39	2.119	40.008	124.09	1.712	40.871	101.28	1.369	41.598	81.68	42"

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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Dimension Data for HDPE Piping System Applications

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The enclosed information is in reference to Performance Pipe's PP 152-4710 and PP 153-4710 pipe size dimension data tables, and has been adjusted to fit this guide.

Visit www.performancepipe.com for the most current literature.

IRON PIPE SIZE (IPS) & DIMENSION DATA FOR HDPE PIPING SYSTEM APPLICATIONS

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.

PE4710 (PE3408)

Pressure Rating		335 psi (DR 7.0)			250 psi (DR 9.0)			200 psi (DR 11.0)			160 psi (DR 13.5)			
PIPE SIZE	IPS OD (IN)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	PIPE SIZE
1 1/4"	1.660	0.237	1.158	0.46	0.184	1.270	0.37	0.151	1.340	0.31	0.123	1.399	0.26	1 1/4"
1 1/2"	1.900	0.271	1.325	0.61	0.211	1.453	0.49	0.173	1.533	0.41	0.141	1.601	0.34	1 1/2"
2"	2.375	0.339	1.656	0.95	0.264	1.815	0.77	0.216	1.917	0.64	0.176	2.002	0.53	2"
3"	3.500	0.500	2.440	2.06	0.389	2.675	1.66	0.318	2.826	1.39	0.259	2.951	1.16	3"
4"	4.500	0.643	3.137	3.40	0.500	3.440	2.75	0.409	3.633	2.31	0.333	3.794	1.92	4"
6"	6.625	0.946	4.619	7.37	0.736	5.065	5.96	0.602	5.349	5.00	0.491	5.584	4.15	6"
8"	8.625	1.232	6.013	12.50	0.958	6.594	10.11	0.784	6.963	8.47	0.639	7.270	7.04	8"
10"	10.750	1.536	7.494	19.42	1.194	8.219	15.70	0.977	8.679	13.16	0.796	9.062	10.93	10"
12"	12.750	1.821	8.889	27.31	1.417	9.746	22.08	1.159	10.293	18.51	0.944	10.749	15.38	12"
14"	14.000	2.000	9.760	32.93	1.556	10.701	26.63	1.273	11.301	22.32	1.037	11.802	18.54	14"
16"	16.000	2.286	11.154	43.01	1.778	12.231	34.78	1.455	12.915	29.15	1.185	13.488	24.22	16"
18"	18.000	2.571	12.549	54.43	2.000	13.760	44.02	1.636	14.532	36.89	1.333	15.174	30.65	18"
20"	20.000	2.857	13.943	67.20	2.222	15.289	54.34	1.818	16.146	45.54	1.481	16.860	37.84	20"
22"	22.000	3.143	15.337	81.32	2.444	16.819	65.75	2.000	17.760	55.10	1.630	18.544	45.79	22"
24"	24.000	3.429	16.731	96.77	2.667	18.346	78.25	2.182	19.374	65.58	1.778	20.231	54.49	24"
26"	26.000				2.889	19.875	91.84	2.364	20.988	76.96	1.926	21.917	63.95	26"
28"	28.000				3.111	21.405	106.51	2.545	22.605	89.26	2.074	23.603	74.17	28"
30"	30.000				3.333	22.934	122.27	2.727	24.219	102.47	2.222	25.289	85.14	30"
32"	32.000				3.556	24.462	139.12	2.909	25.833	116.58	2.370	26.976	96.87	32"
34"	34.000				3.778	25.991	157.05	3.091	27.447	131.61	2.519	28.660	109.36	34"
36"	36.000				4.000	27.520	176.07	3.273	29.061	147.55	2.667	30.346	122.60	36"
42"	42.000							3.818	33.906	200.84	3.111	35.405	166.88	42"
48"	48.000													48"
54"	54.000													54"

Pressure Rating		125 psi (DR 17.0)			100 psi (DR 21.0)			80 psi (DR 26.0)			63 psi (DR 32.5)			
PIPE SIZE	IPS OD (IN)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	MIN. WALL (IN)	AVERAGE ID (IN)	WEIGHT (LBS/FT)	PIPE SIZE
1 1/4"	1.660													1 1/4"
1 1/2"	1.900													1 1/2"
2"	2.375	0.140	2.078	0.43										2"
3"	3.500	0.206	3.063	0.94										3"
4"	4.500	0.265	3.938	1.55	0.214	4.046	1.27							4"
6"	6.625	0.390	5.798	3.36	0.315	5.957	2.75	0.255	6.084	2.24	0.204	6.193	1.81	6"
8"	8.625	0.507	7.550	5.69	0.411	7.754	4.66	0.332	7.921	3.80	0.265	8.063	3.07	8"
10"	10.750	0.632	9.410	8.83	0.512	9.665	7.24	0.413	9.874	5.91	0.331	10.048	4.77	10"
12"	12.750	0.750	11.160	12.43	0.607	11.463	10.19	0.490	11.711	8.31	0.392	11.919	6.71	12"
14"	14.000	0.824	12.253	14.98	0.667	12.586	12.28	0.538	12.859	10.02	0.431	13.086	8.09	14"
16"	16.000	0.941	14.005	19.57	0.762	14.385	16.04	0.615	14.696	13.09	0.492	14.957	10.56	16"
18"	18.000	1.059	15.755	24.77	0.857	16.183	20.30	0.692	16.533	16.57	0.554	16.826	13.37	18"
20"	20.000	1.176	17.507	30.58	0.952	17.982	25.07	0.769	18.370	20.45	0.615	18.696	16.50	20"
22"	22.000	1.294	19.257	37.00	1.048	19.778	30.33	0.846	20.206	24.75	0.677	20.565	19.97	22"
24"	24.000	1.412	21.007	44.03	1.143	21.577	36.10	0.923	22.043	29.45	0.738	22.435	23.76	24"
26"	26.000	1.529	22.759	51.67	1.238	23.375	42.36	1.000	23.880	34.57	0.800	24.304	27.89	26"
28"	28.000	1.647	24.508	59.93	1.333	25.174	49.13	1.077	25.717	40.09	0.862	26.173	32.34	28"
30"	30.000	1.765	26.258	68.80	1.429	26.971	56.40	1.154	27.554	46.02	0.923	28.043	37.13	30"
32"	32.000	1.882	28.010	78.28	1.524	28.769	64.17	1.231	29.390	52.36	0.985	29.912	42.24	32"
34"	34.000	2.000	29.760	88.37	1.619	30.568	72.44	1.308	31.227	59.11	1.046	31.782	47.69	34"
36"	36.000	2.118	31.510	99.07	1.714	32.366	81.21	1.385	33.064	66.27	1.108	33.651	53.46	36"
42"	42.000	2.471	36.761	134.84	2.000	37.760	110.54	1.615	38.576	90.20	1.292	39.261	72.77	42"
48"	48.000	2.824	42.013	176.12	2.286	43.154	144.38	1.846	44.086	117.81	1.477	44.869	95.05	48"
54"	54.000	3.176	47.266	222.90	2.571	48.549	182.73	2.077	49.597	149.10	1.662	50.477	120.29	54"

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