

INDEPENDENT PIPE PRODUCTS, INC.

IPS HDPE PIPE

Iron Pipe Size PE4710
High Density Polyethylene Pipe

“BETTER BY DESIGN”



www.independentpipeproducts.com

ASTM F 714 . ASTM D 3035 . AWWA C901/C906 . NSF - 61

Size		DR 26 CLASS 80 WPR @ 80 psi			DR 21 CLASS 100 WPR @ 100 psi			DR 19 CLASS 110 WPR @ 110 psi			DR 17 CLASS 130 WPR @ 130 psi			DR 13.5 CLASS 160 WPR @ 160 psi			DR 11 CLASS 200 WPR @ 200 psi			DR 9 CLASS 250 WPR @ 250 psi			DR 7 CLASS 355 WPR @ 355 psi		
IPS Pipe Size	Nominal OD (in)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)
2"	2.375	-	-	-	-	-	-	-	-	-	2.078	0.140	0.43	2.002	0.176	0.53	1.917	0.216	0.64	1.815	0.264	0.77	1.656	0.339	0.95
3"	3.500	-	-	-	-	-	-	-	-	-	3.063	0.206	0.94	2.951	0.259	1.16	2.826	0.318	1.39	2.675	0.389	1.66	2.440	0.500	2.06
4"	4.500	-	-	-	4.046	0.214	1.27	-	-	-	3.938	0.265	1.55	3.794	0.333	1.92	3.633	0.409	2.31	3.440	0.500	2.75	3.137	0.643	3.40
5"	5.563	5.109	0.214	1.58	5.001	0.265	1.94	4.942	0.293	2.13	4.870	0.327	2.37	4.690	0.412	2.93	4.490	0.506	3.52	4.253	0.618	4.20	3.877	0.795	5.20
6"	6.625	6.084	0.255	2.24	5.957	0.315	2.75	5.886	0.349	3.02	5.798	0.390	3.36	5.584	0.491	4.15	5.349	0.602	5.00	5.065	0.736	5.96	4.619	0.946	7.37
8"	8.625	7.921	0.332	3.80	7.754	0.411	4.66	7.663	0.454	5.12	7.550	0.507	5.69	7.270	0.639	7.04	6.963	0.784	8.47	6.594	0.958	10.11	6.013	1.232	12.50
10"	10.750	9.874	0.413	5.91	9.665	0.512	7.24	9.551	0.566	7.96	9.410	0.632	8.83	9.062	0.796	10.93	8.679	0.977	13.16	8.219	1.194	15.70	7.494	1.536	19.42
12"	12.750	11.711	0.490	8.31	11.463	0.607	10.19	11.327	0.671	11.20	11.160	0.750	12.43	10.749	0.944	15.38	10.293	1.159	18.51	9.746	1.417	22.08	8.889	1.821	27.31
14"	14.000	12.859	0.538	10.02	12.586	0.667	12.28	12.438	0.737	13.50	12.253	0.824	14.98	11.802	1.037	18.54	11.301	1.273	22.32	10.701	1.556	26.63	9.760	2.000	32.93
16"	16.000	14.696	0.615	13.09	14.385	0.762	16.04	14.215	0.842	17.63	14.005	0.941	19.57	13.488	1.185	24.22	12.915	1.455	29.15	12.231	1.778	34.78	11.154	2.286	43.01
18"	18.000	16.533	0.692	16.57	16.183	0.857	20.30	15.992	0.947	22.32	15.755	1.059	24.77	15.174	1.333	30.65	14.532	1.636	36.89	13.760	2.000	44.02	12.549	2.571	54.43
20"	20.000	18.370	0.769	20.45	17.982	0.952	25.07	17.768	1.053	27.55	17.507	1.176	30.58	16.860	1.481	37.84	16.146	1.818	45.54	15.289	2.222	54.34	13.943	2.857	67.20
22"	22.000	20.206	0.846	24.75	19.778	1.048	30.33	19.545	1.158	33.34	19.257	1.294	37.00	18.544	1.630	45.79	17.760	2.000	55.10	16.819	2.444	65.75	15.337	3.143	81.32
24"	24.000	22.043	0.923	29.45	21.577	1.143	36.10	21.322	1.263	39.67	21.007	1.412	44.03	20.231	1.778	54.49	19.374	2.182	65.58	18.346	2.667	78.25	16.731	3.429	96.77
26"	26.000	23.880	1.000	34.57	23.375	1.238	42.36	-	-	-	22.758	1.529	51.67	21.917	1.926	63.95	20.989	2.364	76.96	19.876	2.889	91.84	-	-	-
28"	28.000	25.717	1.077	40.09	25.173	1.333	49.13	-	-	-	24.508	1.647	59.93	23.603	2.074	74.17	22.604	2.545	89.26	21.404	3.111	106.51	-	-	-
30"	30.000	27.554	1.154	46.02	26.971	1.429	56.40	-	-	-	26.259	1.765	68.80	25.289	2.222	85.14	24.218	2.727	102.47	22.933	3.333	122.27	-	-	-
32"	32.000	29.391	1.231	52.36	28.770	1.524	64.17	-	-	-	28.009	1.882	78.28	26.975	2.370	96.87	25.833	2.909	116.58	-	-	-	-	-	-
36"	36.000	33.065	1.385	66.27	32.366	1.714	81.21	-	-	-	31.511	2.118	99.07	30.347	2.667	122.60	29.062	3.273	147.55	-	-	-	-	-	-

Pressure Ratings are calculated using 0.63 design factor for HDS at 73°F as listed in PPI TR-4 for PE 4710 materials.

Temperature, chemical, and environmental use considerations may require use of additional design factors.

Pipe weights are calculated in accordance with PPI TR-7. Average inside diameter is calculated with nominal OD and minimum wall thickness plus 6%. Actual ID's will vary and are controlled by the dimensions and tolerances listed in the applicable pipe specifications.

Per AWWA C906, the working pressure rating equals the pressure class, with an allowance included in the WPR for pressure surge.

The pressure and surge design basis for polyethylene pipe is different from the PVC and DI pipe design basis.

For service tubing and larger diameters or other DR's, contact your customer service representative @ 1-800-499-6927.

$$DR = \frac{\text{Pipe OD (inches)}}{\text{Minimum Wall Thickness (inches)}}$$

The Long-Term Hydrostatic Strength of PE4710 Polyethylene Pipe is 1600 psi at 73.4 F. All pipe sizes with the same DR and Long-Term Hydrostatic Strength will have equal operating pressure capability.

• STANDARD SIZES AND DR'S SHOWN IN BOLD PRINT •

INDEPENDENT PIPE PRODUCTS, INC.

DIPS HDPE PIPE Ductile Iron Pipe Size PE4710 High Density Polyethylene Pipe

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Size		DR 26 CLASS 80 WPR @ 80 psi			DR 21 CLASS 100 WPR @ 100 psi			DR 17 CLASS 130 WPR @ 130 psi			DR 13.5 CLASS 160 WPR @ 160 psi			DR 11 CLASS 200 WPR @ 200 psi			DR 9 CLASS 250 WPR @ 250 psi		
DIPS Pipe Size	Nominal OD (in)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)	Avg ID (in)	Min Wall (in)	Weight (lbs/ft)
4"	4.800	4.408	0.185	1.18	4.315	0.229	1.44	4.202	0.282	1.76	4.045	0.356	2.18	3.876	0.436	2.62	3.670	0.533	3.13
6"	6.900	6.338	0.265	2.43	6.203	0.329	2.98	6.039	0.406	3.64	5.817	0.511	4.50	5.571	0.627	5.42	5.274	0.767	6.47
8"	9.050	8.312	0.348	4.19	8.136	0.431	5.13	7.922	0.532	6.26	7.630	0.670	7.75	7.305	0.823	9.32	6.917	1.006	11.13
10"	11.100	10.195	0.427	6.30	9.979	0.529	7.72	9.716	0.653	9.42	9.357	0.822	11.66	8.961	1.009	14.03	8.486	1.233	16.74
12"	13.200	12.123	0.508	8.91	11.867	0.629	10.92	11.555	0.776	13.32	11.127	0.978	16.48	10.656	1.200	19.84	10.090	1.467	23.67
14"	15.300	14.053	0.588	11.97	13.755	0.729	14.67	13.392	0.900	17.89	12.898	1.133	22.15	12.351	1.391	26.65	11.696	1.700	31.80
16"	17.400	15.982	0.669	15.48	15.643	0.829	18.97	15.229	1.024	23.14	14.667	1.289	28.64	14.046	1.582	34.47	13.302	1.933	41.13
18"	19.500	17.910	0.750	19.44	17.531	0.929	23.83	17.068	1.147	29.07	16.439	1.444	35.97	15.741	1.773	43.29	14.906	2.167	51.66
20"	21.600	19.838	0.831	23.86	19.419	1.029	29.24	18.905	1.271	35.66	18.208	1.600	44.14	17.436	1.964	53.12	16.512	2.400	63.38
24"	25.800	23.697	0.992	34.04	23.195	1.229	41.71	22.582	1.518	50.88	21.749	1.911	62.97	20.829	2.345	75.78	19.722	2.867	90.43
30"	32.000	29.391	1.231	52.36	28.770	1.524	64.17	28.009	1.882	78.28	26.975	2.370	96.87	25.833	2.909	116.58	-	-	-
36"	38.300	35.177	1.473	75.00	34.434	1.824	91.92	33.524	2.253	112.13	32.285	2.837	138.77	-	-	-	-	-	-

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