



Iron Pipe Size (IPS) and Dimension Data

ASTM D-3035-03, Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter.

ASTM F-714-03, Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter.

Dimension in millimeter

PRESSURE RATING 3408			DR7.3 255 PSI			DR9 200 PSI			DR11 160 PSI			DR13.5 128 PSI			Pressure Rate
PRESSURE RATING 4710			DR7.3 320 PSI			DR9 252 PSI			DR11 202 PSI			DR13.5 160 PSI			
IPS Pipe Size(In)	Nominal OD (in)	Nominal OD (mm)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	IPS Pipe Size(In)
1/2	0.84	21.34	3.05	14.99	0.18	2.36	16.26	0.15	1.93	17.27	0.12	1.57	18.03	0.10	1/2
3/4"	1.05	26.67	3.81	18.59	0.27	2.97	20.37	0.22	2.41	21.56	0.18	1.98	22.48	0.15	3/4"
1"	1.32	33.40	4.78	23.27	0.43	3.71	25.53	0.34	3.05	26.95	0.30	2.46	28.17	0.24	1"
1 1/4"	1.66	42.16	5.77	29.95	0.65	4.67	32.26	0.55	3.84	34.04	0.46	3.12	35.53	0.39	1 1/4"
1 1/2"	1.90	48.26	6.60	34.26	0.86	5.36	36.91	0.73	4.39	38.94	0.61	3.58	40.67	0.51	1 1/2"
2"	2.38	60.33	8.26	42.82	1.35	6.71	46.10	1.13	5.49	48.69	0.95	4.47	50.85	0.79	2"
3"	3.50	88.90	12.17	63.12	2.95	9.88	67.95	2.47	8.08	71.78	2.07	6.58	74.96	1.71	3"
4"	4.50	114.30	15.65	81.13	4.87	12.70	87.38	4.08	10.39	92.28	3.41	8.46	96.37	2.83	4"
5"	5.56	141.30	19.35	100.28	7.44	15.70	108.03	6.22	12.85	114.05	5.22	10.46	119.13	4.33	5"
6"	6.63	168.28	23.06	119.38	10.55	18.69	128.65	8.82	15.29	135.86	7.40	12.47	141.83	6.15	6"
8"	8.63	219.08	30.02	155.42	17.87	24.33	167.49	14.95	19.91	176.86	12.53	16.23	184.66	10.42	8"
10"	10.75	273.05	37.41	193.73	27.77	30.33	208.76	23.23	24.82	220.45	19.48	20.22	230.17	16.17	10"
12"	12.75	323.85	44.37	229.77	39.06	35.99	247.55	32.69	29.44	261.44	27.39	23.98	273.02	22.75	12"
14"	14.00	355.60	48.72	252.32	47.08	39.52	271.81	39.43	32.33	287.05	33.03	26.34	299.77	27.44	14"
16"	16.00	406.40	55.68	288.37	61.50	45.16	310.67	51.48	36.96	328.04	43.15	30.10	342.60	35.85	16"
18"	18.00	457.20	62.64	324.41	77.84	50.80	349.50	65.16	41.55	369.11	54.59	33.86	385.42	45.35	18"
20"	20.00	508.00	69.60	360.45	96.10	56.44	402.06	80.43	46.18	410.11	67.41	37.62	428.24	55.99	20"
22"	22.00	558.80	76.56	396.49	116.27	62.08	427.20	97.32	50.80	451.10	81.57	41.40	471.02	67.79	22"
24"	24.00	609.60	83.52	432.54	138.38	67.74	465.99	115.84	55.42	492.10	97.08	45.16	513.87	80.66	24"
26"	26.00	660.40	-	-	-	73.38	504.83	135.94	60.05	533.10	113.94	48.92	556.69	94.67	26"
28"	28.00	711.20	-	-	-	79.02	543.69	157.65	64.64	574.17	132.10	52.68	599.52	109.78	28"
30"	30.00	762.00	-	-	-	84.66	582.52	180.97	69.27	615.16	151.66	56.44	642.34	126.02	30"
32"	32.00	812.80	-	-	-	-	-	-	73.89	656.16	172.56	60.20	685.19	143.37	32"
34"	34.00	863.60	-	-	-	-	-	-	78.51	697.15	194.82	63.98	727.96	161.91	34"
36"	36.00	914.40	-	-	-	-	-	-	83.13	738.15	218.44	67.74	770.79	181.51	36"
42"	42.00	1066.80	-	-	-	-	-	-	-	-	-	79.02	899.29	247.01	42"

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.



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ASTM F-714-03, Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter.

Dimension in millimeter

PRESSURE RATING 3408			DR17 100 PSI			DR21 80 PSI			DR26 65 PSI			DR32.5 50 PSI			Pressure Rate
PRESSURE RATING 4710			DR17 125 PSI			DR21 100 PSI			DR26 80 PSI			DR32.5 63 PSI			
IPS Pipe Size(In)	Nominal OD (in)	Nominal OD (mm)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	Minimum Wall (mm)	Average ID (mm)	Weight (kg/m)	IPS Pipe Size(In)
1/2	0.84	21.34	1.57	18.03	0.10	1.57	18.19	0.10	1.57	18.03	0.10	1.57	18.03	0.10	1/2
3/4"	1.05	26.67	1.57	23.37	0.12	1.57	23.52	0.12	1.57	23.37	0.12	1.57	23.37	0.12	3/4"
1"	1.32	33.40	1.96	29.21	0.19	1.57	30.25	0.16	1.57	29.97	0.16	1.57	29.97	0.16	1"
1 1/4"	1.66	42.16	2.49	36.68	0.30	2.01	38.15	0.25	1.63	38.91	0.21	1.57	29.97	0.20	1 1/4"
1 1/2"	1.90	48.26	2.84	42.06	0.47	2.29	43.69	0.38	1.85	44.55	0.27	1.57	45.11	0.23	1 1/2"
2"	2.38	60.33	3.56	52.71	0.64	2.87	54.58	0.60	2.31	55.70	0.42	1.85	56.62	0.34	2"
3"	3.50	88.90	5.23	77.80	1.38	4.24	80.42	1.23	3.43	82.04	0.92	2.74	83.41	0.74	3"
4"	4.50	114.30	6.73	100.03	2.29	5.44	102.77	1.87	4.39	105.51	1.52	3.51	107.29	1.22	4"
5"	5.56	141.30	8.31	123.70	3.50	6.73	127.03	2.87	5.44	129.77	2.34	4.34	132.61	1.87	5"
6"	6.63	168.28	9.91	147.27	4.97	8.00	151.31	4.06	6.48	154.53	3.32	5.18	157.30	2.68	6"
8"	8.63	219.08	12.88	191.77	8.41	10.44	196.95	6.90	8.43	201.19	5.64	6.73	204.80	4.54	8"
10"	10.75	273.05	16.05	239.01	13.06	13.00	245.49	10.73	10.49	250.80	8.73	8.41	255.22	7.07	10"
12"	12.75	323.85	19.05	283.46	18.39	15.42	291.16	15.07	12.45	297.46	12.29	9.96	302.74	9.92	12"
14"	14.00	355.60	20.93	311.23	22.19	16.94	319.68	18.18	13.67	326.62	14.82	10.95	332.38	11.98	14"
16"	16.00	406.40	23.90	355.73	28.96	19.35	365.38	23.75	15.62	373.28	19.36	12.50	379.91	15.62	16"
18"	18.00	457.20	26.90	400.18	36.66	21.77	411.05	30.04	17.58	419.94	24.51	14.07	427.38	19.79	18"
20"	20.00	508.00	29.87	444.68	45.25	24.18	456.74	37.10	19.53	466.60	30.27	15.62	474.88	24.42	20"
22"	22.00	558.80	32.87	489.13	54.76	26.62	502.36	44.91	21.49	513.23	36.62	17.20	522.35	29.55	22"
24"	24.00	609.60	35.86	533.58	65.19	29.03	548.06	53.43	23.44	559.89	43.60	18.75	569.85	35.15	24"
26"	26.00	660.40	38.84	578.08	76.47	31.45	593.73	62.70	25.40	606.55	51.17	20.32	617.32	41.28	26"
28"	28.00	711.20	41.83	622.50	88.71	33.86	639.42	72.70	27.36	653.21	59.34	21.89	664.79	47.90	28"
30"	30.00	762.00	44.83	666.95	101.85	36.30	685.06	83.51	29.31	699.87	68.12	23.44	712.29	54.95	30"
32"	32.00	812.80	47.80	711.45	115.86	38.71	730.73	94.99	31.27	746.51	77.52	25.02	759.76	62.56	32"
34"	34.00	863.60	50.80	755.90	130.81	41.12	776.43	107.23	33.22	793.17	87.51	26.57	807.26	70.58	34"
36"	36.00	914.40	53.80	800.35	146.67	43.54	822.10	120.20	35.18	839.83	98.12	28.14	854.74	79.16	36"
42"	42.00	1066.80	62.76	933.73	199.63	50.80	959.10	163.64	41.02	979.83	133.49	32.82	997.23	107.69	42"
48"	48.00	1219.20	71.73	1,067.13	260.74	58.06	1,096.11	213.75	46.89	1,119.78	174.36	37.52	1,139.67	140.71	48"
54"	54.00	1371.60	-	-	-	65.30	-	-	52.76	-	-	42.21	-	-	54"
63"	63.00	1600.20	-	-	-	76.20	-	-	61.54	-	-	49.23	-	-	63"
65"	65.00	1651.00	-	-	-	78.61	-	-	63.50	-	-	50.80	-	-	65"

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